Self Diagnosis Supported model

SERVICE MANUAL

AE-6D CHASSIS

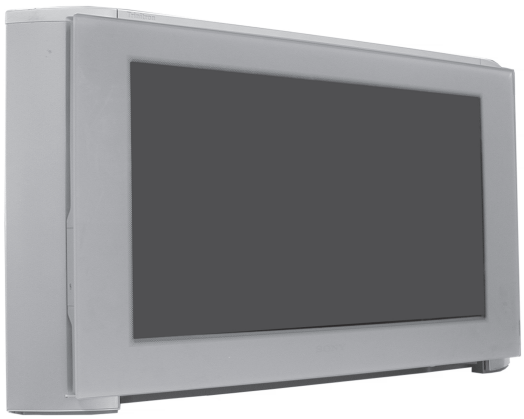
MODEL	COMMANDER	DEST	CHASSIS NO.
KD-32DX100U	RM-933	UK	SCC-Q84B-A
KD-32NS100B	RM-935	FR	SCC-Q85A-A

MODEL	COMMANDER	DEST	CHASSIS NO.
KD-32NX100U	RM-935	UK	SCC-Q84A-A

FD Trinitron

KD-32DX100

RM-933



KD-32NX100/KD-32NS100

RM-935

TRINITRON ® COLOR TV

SONY ®

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ATTENTION

APRES AVOIR DECONNECTE LE CAP DE'LANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SECURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

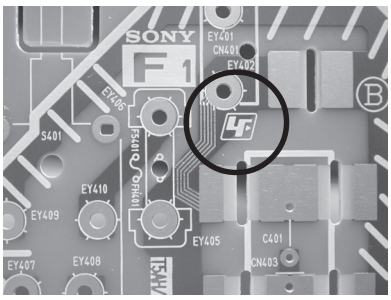
COMPONENTS IDENTIFIED BY SHADING AND MARKED ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.

example 1



example 2

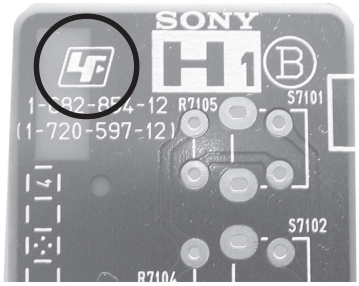


Table 1

Board	Function
C	R,G,B CRT Drive
F	Lightening / Fuse
F1	AC Input
H1	SVHS and Phono
H2	Circs
H3	Speaker
VM	Velocity Modulation

It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.

For more information on the use of Lead Free Solder, please refer to *http://www.sony-training.com*

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L, DVB-S	GERMAN/NICAM Stereo	VHF : E2-E12, F2-F10 UHF : E21-E69, F21-F69, B21-B69 CABLE TV : S1-S41, S01-S05, M1-M10 U1-U10 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN), MPEG2 MP@ML
U	I, DVB-T	NICAM Stereo	I UHF : E21-E69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN) MPEG2 MP@ML

Picture Tube	FD Trinitron Approx 82 cm (32 inches) (Approx 76 cm picture measured diagonally) 102° degree deflection	**Sound Output**	
		Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
		Subwoofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		**General Specifications**	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	130W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Dimensions	Approx 886x620x592mm
		Weight	Approx 74kg
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs for Video and Audio signals (selectable)	Supplied Accessories	RM-933 Remote Commander (KD-32DX100U) RM-935 Remote Commander (KD-32NX100U) (KD-32NS100B) IEC designated R6 battery (2) RF Loop through cable (KD-32NX100U) (KD-32DX100U) External Modem (V.90) (KD-32NS100B)
Phono Jacks	Output Connectors variable for Audio Signals		
PCMCIA Socket	Conditional Access Module	Other Features	100 Hz picture, DRC, Teletext, Smartlink, Virtual Dolby
Input/Output Terminals [FRONT/SIDE]		**Remote control system : Infrared control**	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		

Design and specifications are subject to change without notice.

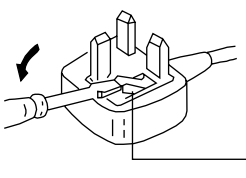
Model Name Item	KD-32DX100U	KD-32NX100U	KD-32NS100B
Pal Comb	ON	ON	ON
PIP	OFF	OFF	OFF
RGB Priority	ON	ON	ON
Woofer Box	ON	ON	ON
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Scart 3	ON	ON	ON
Front in (4)	ON	ON	ON
Projector	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON
Norm B/G	OFF	OFF	ON
Norm I	ON	ON	ON
Norm D/K	OFF	OFF	ON
Norm AUS	OFF	OFF	OFF
Norm L	OFF	OFF	ON
Norm SAT	OFF	OFF	ON
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	ON	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the ASTA mark.

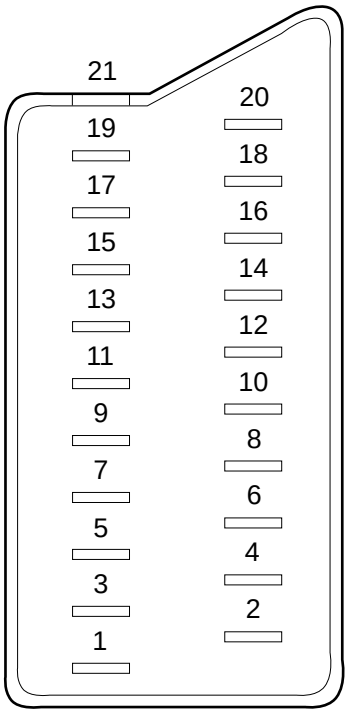
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

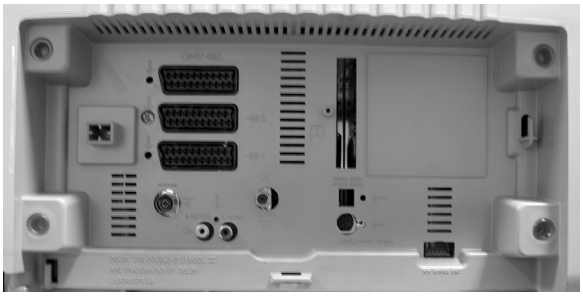
21 pin connector



Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	–	–	Red input	0.7 +/- 3dB, 75 ohms, positive
	–	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	–	–	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	–	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel

S-Video socket

S Video socket pin configuration		
Pin No	**Signal**	**Signal Level**
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V+/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V+/- 3dB 75ohm, positive Sync.

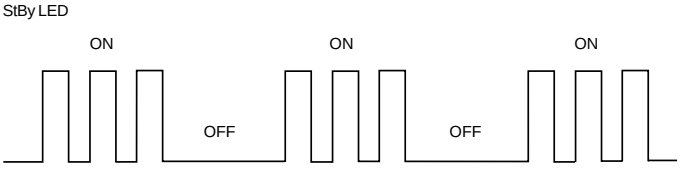
AE-6D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6D chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in. Fuse is open circuit.	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q8803/8804) is shorted (D Board). Linearity FET (Q8806) is shorted (D Board).	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R8835 open (D Board) -15V is not supplied R8834 open (D Board) IC1701 is shorted (A Board)	Vertical deflection pulse has stopped Power line has shorted

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
OVP (Over Voltage Protection)	03
Vertical Protection	04
Unstable AKB (check starts after 30 secs)	05
Horizontal Protection	06
Speaker Protection	07
I2C bus 0 error	08
M-B Tele-Text-Decoder	09
M-B ST24C32, NVM	10
J-B TDA9320, Main Colour Decoder	11
A-B CXA2150Q Backend	12
A-B MSP3410D, Sound Processor	13
N-B EMMA Digital Micro	14
External RAM	18

Flash Timing Example : e.g. error number 3



Error Detection Monitor

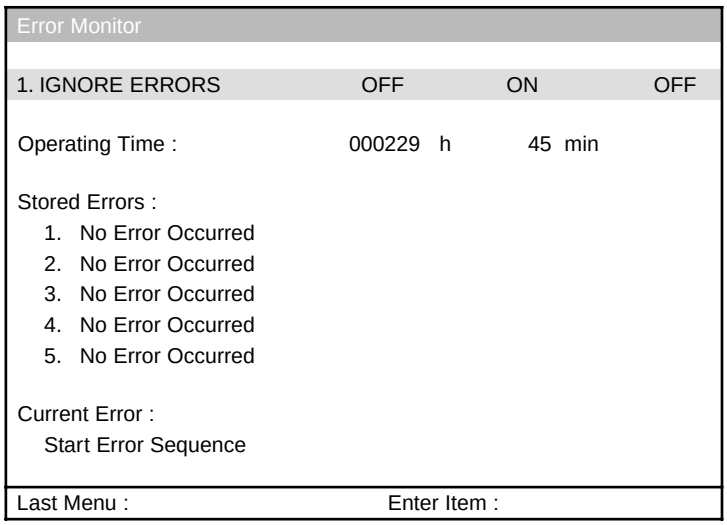
Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after each attempt, it will be regarded as an error.
There are three steps to check for errors.

1. IIC line 0
   If all devices except the NVM have errors, IIC line 0 error is displayed.
2. Board check
   If all devices mounted on one board have errors, board error is displayed.
3. Each device check
   If IIC line error and board error are not detected then the device with the error is displayed.

The detected errors can be displayed as follows :

1. Error Monitor Menu.
2. Error Reader.

1. Error Monitor Menu



2. Error Reader Display

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table.

Error Code	Error Message
000h	No error occurred
001h	Bus error, IIC0
002h	Bus error, IIC1
100h	**A-Board**
101h	A-B CXA1875, Port Expander
102h	A-B TU1326, Main Tuner
104h	A-B TDA9886, Main IF
106h	A-B CXA2150Q, Backend
107h	A-B MB88141
108h	A-B PCF8593, RTC
400h	**BP Board**
401h	BP-B MID orMIDX
403h	B4-B Panorama Gate Array
404h	B3-B DRC
700h	**J Board**
703h	J-B Main Colour Decoder
705h	J-B CXA1875, Sub-Sound
706h	J-B MSP3410D, Sound Processor
708h	J-B CXA21X9, AV Switch
800h	**M Board**
801h	M-B ST34C32, NVM
900h	**N-Board**
901h	N-B EMMA Digital Micro

The operating instructions mentioned here are partial abstracts from the 'Operating Instruction Manual'. The page numbers of the 'Operating Instruction Manual' remain as in the manual.

5. Automatically tuning the TV

1. When you switch on this TV for the first time, the Language/Country menu appears on screen with the word 'English' highlighted. Press the ↑ or ↓ buttons on the remote control to choose the language you require then press the OK button to confirm.

Note: The digital features of this set are designed for use in Great Britain only.

2. The word Country is now highlighted. Press the ↑ or ↓ buttons to choose the country in which you wish to operate the TV, then press the OK button to confirm.

   The autotune prompt screen appears. Press the OK button to select Yes and begin the digital autotune procedure.

   As this may take some time, a menu appears on screen and informs you of the tuning progress.

   When all the available digital programmes are found, the analogue tuning display appears and all the analogue signals are captured and stored.

   If no digital and no analogue signals are found, a display appears on screen asking you to confirm your aerial is connected. Check your aerial is connected then press the OK button to repeat the tuning procedure.

   Once all signals have been captured and stored, the TV returns to normal operation and displays the digital programme captured on programme number 1.

Note: If no digital signals are captured, then the analogue programme stored on programme number 1 is displayed.

3. To view programmes, press the PROG+/- button or the numbered buttons on the remote control.

Switching between digital and analogue programmes

To check if you are watching a digital or analogue programme press the i+ button on the remote control. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. To change to analogue programmes press the DIGITAL/ button. When you wish to return to digital programmes press the DIGITAL/ button once more.

6. Finding your video channel

If you connected a VCR to your TV when following the 'Connecting your aerial instructions', you now need to find your video channel.

1. First ensure the TV is in analogue mode. If not press the DIGITAL/ button on the remote control.
2. Press the PROG+/- button on the remote control until the picture from the pre-recorded tape appears on screen.

Notes: If you wish to move your video channel to a different programme number, refer to the 'Rearranging your channels' section of this manual.

If you have connected your VCR using a scart lead, press the / button repeatedly on the remote control until the picture from the pre-recorded tape appears on the TV screen.

Using a Digital text service

Most digital TV channels broadcast information via their text service. This digital service includes high quality text and graphics along with advanced navigation options. Additionally, this TV has access to dedicated text channels transmitted by the broadcasting authorities.

The appearance, content and navigation methods of all Digital text services are decided by the broadcaster. For example, the BBC's Digital text service may look different to ITV's Digital text. Most of the Digital text services currently available use simple navigation methods based on the following buttons:

The text button to load up the Digital text,
The ↑, ↓, ← and → buttons (to move around the screen),
The OK button or the numbered buttons (to select items on screen),
The button (to cancel or exit),
The four coloured buttons (to access shortcuts).

Selecting a dedicated Digital text channel

1. Press the i+ button on the remote control to check if you are in digital mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. If the display does not appear, press the DIGITAL/ button to switch to digital mode.

2. Press the i+ button to remove the Info display from the TV screen then select the programme number that is broadcasting the dedicated Digital text channel by using the numbered buttons on the remote control. If you do not know the channel number of a dedicated Digital text channel, you can use the 'Channel Index menu' to find one. (Please refer to the 'Channel index menu' section of this manual.)

3. Once the text page is displayed, follow the on-screen instructions to obtain your required selection.

   Note: On some pages the TV programme may also be displayed on the text screen. On-screen instructions will inform you how to change the displayed programme.

4. If you are instructed to press 'OK', 'Select' or 'Cancel' when viewing the text pages, press the OK button for 'OK' and 'Select', and the button for 'Cancel' or 'Exit'.

5. When you have finished viewing the text service, press the button to exit.

Selecting a text service from other Digital channels

Normal text services may also be available on other digital channels. This is sometimes indicated by a small symbol on your TV screen, superimposed on the programme you are watching.

1. Press the ↑, ↓, ←, or → buttons to select the symbol, then press the OK button to display the chosen information.

2. Alternatively, you may be instructed to use the numbered or coloured buttons on your remote control to display the various pages of text information. If you are instructed to press 'OK', 'Select' or 'Cancel' when viewing the text pages, press the OK button for 'OK' and 'Select', and the button for 'Cancel'.

3. Once the text information is displayed, you can access required information by using the ↑, ↓, ←, or → buttons, the coloured buttons and/or the numbered buttons of the remote control.

4. When you have finished viewing the text service, press the button to exit.

Using a conventional text service

Most analogue TV channels broadcast a text service. The index page (usually page 100) provides information on how to use the service. Please ensure you are receiving a strong signal or some text errors may occur.

Switching on the text service

1. Press the button on the remote control to check if you are in analogue mode. If you are watching a digital programme an Info display appears on screen providing brief details for the current and next programme. To change to analogue programmes press the DIGITAL/ button.
2. Select the TV programme which carries the text service you wish to view.
3. Press the button on the remote control to enter the text mode.
4. Press the numbered buttons to enter a three digit number for the text page you wish to view. Your selected page appears on screen.

5. Enter more 3 digit page numbers as required.
6. When you have finished viewing the text service, press the DIGITAL/ button to remove the text display from the screen.

How to use the text features

Text Features	How to select
To select the next or preceding page	Press the or button.
To select a sub page	A text page can consist of several sub pages. In this case an information box is displayed at the bottom of the screen showing the number of sub pages available. Select the sub pages by pressing the ↑ or ↓ button.
To keep a page on display	Press the button. Press again to cancel.
To use mix mode	When in text mode press the button. The text page is superimposed onto the picture. Press the button again to return to TV mode.
To use Fastext	Fastext allows you to access pages with one button push. When Fastext is available, four coloured items appear at the bottom of the screen. Press the corresponding button on the remote control to display the page.
To use the Page Catching feature	Select a page that contains several page numbers (e.g. the index page), then press the OK button. Press the ↑ or ↓ button to highlight the page number required, then press the OK button again. Your selected page appears on screen.

Using a conventional text service

Using the text menu

You can access more features by using the text menu:

1. Press the button on your remote control to enter the conventional text mode.
2. With the text display on screen, press the MENU button to display the 'text' menu.

3. Press the ↑ or ↓ button to highlight your desired feature, then press the → button to select.
4. Press the MENU button to remove the text menu from the screen.

The following table explains each feature and its function.

Feature	Function
Top/Bottom/Full	This feature allows you to enlarge sections of the displayed page. Press the ↑ button to enlarge upper half of the page or ↓ to enlarge the bottom half. Press the OK button to return page to normal size. Press ← button to return to the text menu.
Text Clear	Use this feature to view the TV programme whilst the text service is searching for a page. Once the page has been found, a blue symbol appears in the top left corner of the screen. Press the button to view the page.
Reveal	Select this to reveal hidden information on the page (such as answers to a quiz).
Time Page	This feature allows a time-coded text page (such as an alarm page), to be displayed at a set time. When selected, the 'Time Page' sub menu is displayed. Enter the desired page number and the time you want the page to appear using the remote control buttons 0 - 9, then press OK button to confirm the settings. The TV then exits the text mode and the time is displayed in the top left corner of the screen. At your requested time the text page is displayed.
Page Overview (Only for TOPText broadcasts)	TOP-Text pages are divided into two columns. The first column shows 'blocks' of pages and the second shows 'groups' of pages. Press → or ← button to select the desired column, then press ↑ or ↓ button to select the relevant 'group' or 'block' of pages. Press the OK button to display the chosen pages.

The following pages explain the TV set up menus and their operation. Although most of these menus can be accessed whilst watching digital programmes, we recommend you switch to analogue mode to view all the menus. To check which mode you are in, press the i+ button on the remote control. If you are watching a digital programme, an Info display appears on screen providing brief details for the current and next programme. If this happens, press the DIGITAL/ button on the remote control to switch to the traditional analogue channels.

Using the programme index table

The programme index table is an easy way to search for a programme you wish to view.

1. Press the OK button to display the programme list on screen.

2. Press the ↑ or ↓ button to scroll through the list until the programme number you wish to view is highlighted, then press the OK button to display that programme on screen.

Adjusting the picture

1. Press the MENU button to display the main menu, then press the → button to highlight 'Picture Mode'.

2. Press the ↑ or ↓ button to highlight the option you require then press the → button to confirm.
   The table below explains the function of each option and which buttons to press for adjustment. Once adjustment has been finalised, press the OK button to store.

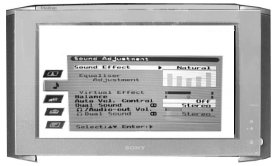
3. Press the MENU button when you wish to remove the menu from the screen.

Option	Adjustment/Effect
Picture Mode	Press ↑ or ↓ button to select Live, Personal, Movie or Game mode. Live, Movie and Game have had their picture levels preset to suit their intended functions, whilst Personal mode allows you to set your own levels of brightness, sharpness and colour.
Contrast Brightness Colour Sharpness	Press ← or → button to increase or decrease the levels to suit personal taste. You can only adjust the Colour, Brightness and Sharpness if you have selected 'Personal' in 'Picture Mode' option.
Reset	Resets picture to factory preset levels.
AI (artificial intelligence)	Press ↑ or ↓ button to turn On or Off. When set to On, the TV will monitor the picture and limit any sudden increases in brightness and contrast.
Noise Detection	Press ↑ or ↓ button to switch On or Off. When set to On, this option can sometimes reduce the noise level apparent on a weak signal.
DRC Mode	Press ↑ or ↓ button to set the desired picture resolution. Set to 'Off' for basic picture quality, 'DRC50' for improved resolution or 'DRC100' for optimum picture resolution.
Colour Tone	Press ↑ or ↓ button to alter the tint of the colour to suit your taste. Choose from Warm, Normal or Cool.

Adjusting the sound

1. Press the MENU button to display the main menu.

2. Press the ↓ button to highlight the icon, then press the → button to highlight 'Sound Effect'.



3. Press the ↑ or ↓ button to select the option you wish to adjust, then press the → button to confirm.
   The table below explains the function of each option and which buttons to press for adjustment. Once adjustment has been finalised, press the OK button to store.

4. Press the MENU button when you wish to remove the menu from the screen.

Option	Adjustment/Effect
Sound Effect	Press ↑ or ↓ button to select from Personal, Dolby V*, Natural**, or Dynamic**. When Dolby V. is selected, the TV simulates the full effects of Dolby Surround sound when receiving a Dolby broadcast.
Equaliser Adjustment (only available if Sound Effect is set to 'Personal').	This option allows you to alter the sound by adjusting the 5 frequency bands which control the overall sound effect. Press the ← or → buttons to select each band, then press ↑ or ↓ button to adjust the frequency level. Once the desired adjustment is made press the OK button to store.
Virtual Effect	Changes the level of surround sound effect when listening to a Dolby surround sound broadcast. (only when Dolby V has been selected in Sound Effect option)
Balance	Press ← or → button to set the balance to desired level.
Auto Vol. Control	Press ↑ or ↓ button to set to On or Off. When set to On, the volume remains constant even if the broadcast level changes (during adverts for example).
Dual Sound	When receiving bilingual broadcasts: Press ↑ or ↓ button to choose A to listen to the first language or B to listen to the second language. When receiving Stereo broadcasts: Press ↑ or ↓ button to choose Mono or Stereo. Note: When NICAM is broadcast the word 'NICAM' appears in the menu.
Audio-out Vol.	Press ← or → button to increase or decrease the volume level to the headphone socket and/or the audio out sockets on the rear of the TV.
Dual Sound	When receiving bilingual broadcasts press ↑ or ↓ button to select which language is output to the headphone socket. Select A to listen to the first language or B to listen to the second language.

Notes: This TV has been designed to create a Virtual Dolby Surround sound effect from a 'Dolby Surround' broadcast without the need for additional surround speakers. However, if you wish to connect an external amplifier to this TV, please refer to the 'Connecting external equipment' section of this manual.

* When 'Dolby V' is selected, the TV simulates the full effects of Dolby Pro Logic Surround sound without the need for additional speakers. Manufactured under licence from Dolby Laboratories. 'Dolby', 'Pro Logic' and the double-D symbol are trademarks of Dolby Laboratories.

** Natural and Dynamic are functions of the 'BBE High definition Sound System'. This system enhances clarity, detail, presence of sound, and increases musical realism. The 'BBE High definition Sound System' is manufactured by Sony Corporation under licence from BBE Sound, inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word 'BBE' and the BBE symbol are trademarks of BBE Sound, Inc.

Adjusting the picture rotation

Due to the Earth's magnetic field the picture can sometimes slant. This feature enables you to cancel out any such effect.

1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the icon, then press the → button to highlight 'Auto Tuning'.
3. Press the ↓ button to highlight 'Manual Set Up' then press the → button to display the Manual Set Up menu.
4. Press the ↓ button to highlight 'Picture Rotation' then press the → button to select.

5. Press the ↑ or ↓ button to rotate the picture over a range of -5 to +5 then press the OK button to store.
6. Press the MENU button to remove the menu from the screen.

Setting your personal ID

This feature allows you to enter a safety code to the TV, which would help you to be traced if the TV is stolen and recovered. This code can only be entered once, so please make a note of it and keep it safe.

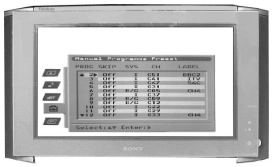
1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the icon, then press the → button to highlight 'Auto Tuning'.
3. Press the ↓ button to highlight 'Manual Set Up', then press the → button to display the Manual Set Up menu.
4. Press the ↓ button to highlight 'Personal ID' then press the → button to select.

5. Press the ↑ or ↓ button to display the first character you require (letter or number), then press the → button to select.
6. Repeat the procedure to complete your ID code, then press the OK button. A box appears requesting your confirmation. Press OK to confirm and save.
7. Press the MENU button to remove the menu from the screen.

Manually tuning analogue signals

With this feature you can manually add analogue programmes to your TV. Manual tuning also allows you to select inputs from the scart sockets (VCRs etc) so that they can be viewed on the programme number of your choice.
To check which mode you are in, press the i+ button on the remote control. If you are watching a digital programme, an Info display appears on screen providing brief details for the current and next programme. If this happens, press the DIGITAL/ button on the remote control to switch to the traditional analogue channels.

1. Press the MENU button to display the main menu.
2. Press the ↓ button to highlight the icon, then press the → button to highlight 'Auto Tuning'.
3. Press the ↓ button to highlight 'Manual Set Up' then press the → button to display the Manual Set Up menu.
4. Press the ↓ button to highlight 'Manual Programme Preset' then press the → button to display the Manual Programme Preset menu.



5. Press the ↑ or ↓ button to highlight the programme number you require, then press the → button to highlight the SKIP column.
6. Press the ↑ or ↓ button to set to OFF, then press the → button to highlight SYS column.
7. Press the ↑ or ↓ button to select your system requirement. For example, choose I for theTV broadcasts or 'EXT' if you wish to view signals from your VCR or other equipment you have connected to the scart sockets (AV1, AV2 etc.). Press → button to confirm your choice.

   If you selected a TV broadcast system:
   Press the ↑ or ↓ button to select 'C' for terrestrial channels, 'S' for cable channels or 'F' for direct frequency input, then press → button to confirm your choice.
   If you know the channel number or frequency number you require, use buttons 0 - 9 on the remote control to enter the number, otherwise press the ↑ or ↓ button to search for the next available broadcast. If the broadcast found is not the one you desire, press the ↑ or ↓ button to repeat the search.

   If you have selected EXT:
   Press the ↑ or ↓ button to select the AV socket whose input you wish to view on the programme number chosen in step 5.
8. Press the OK button to store.
9. Repeat steps 5 - 8 if you wish to tune in broadcasts to other programme numbers, then press the MENU button to remove the menu from the screen .

Remote control configuration for VCR/DVD

This remote control has been configured to operate not only Sony DVDs and VCRs but also those made by other manufacturers. To operate other makes of DVD and VCR using this remote control, complete the following procedure:

1. Find the 3 digit code for your brand from the list below. If your brand has more than one code allocated to it, make a note of the first code only at this stage.
2. Press the MODE button on the remote control until either the VCR green light or the DVD green light is illuminated.
3. Whilst the required green light is illuminated, press and hold down the YELLOW button for approximately 6 seconds, until the light starts to flash.
4. Enter the 3 digit code for your DVD or VCR. Once a correct number has been entered, all three green lights will illuminate momentarily.
5. Turn on your DVD or VCR and check that the remote control operates the main functions. If not, repeat steps 2 - 4 and enter the next 3 digit code allocated to your brand of VCR or DVD.
6. When you wish to use the remote control to operate the TV again, press the MODE button until the TV green light illuminates. Don't forget to select VCR or DVD using the MODE button every time you wish to operate that equipment with this remote control.

Note: The brand codes you set may be lost if weak batteries are not replaced immediately. Should this happen, use the above procedure to reset the code. A small label has been attached to the inside of the battery cover for you to make a note of your brand codes.
Not all brands and models of DVDs or VCRs are covered in this list. However, Sony will endeavour to update the software periodically, so please refer to the code table provided with your remote control.

VCR Brand List		**DVD Brand List**	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 309	SONY	001
SONY (BETA)	301, 302, 303, 309	AIWA	021
SONY (DVD)	304, 305, 306	DENON	018, 027, 020, 002
AIWA	325, 331, 351	GRUNDIG	009, 028, 023, 024, 016. 003
AKAI	326, 329, 330	HITACHI	025, 026, 015, 004
DAEWOO	342, 343	JVC	006, 017
GRUNDIG	358, 355, 360, 361, 320, 351	KENWOOD	008
HITACHI	327, 333, 334	LG	015, 014
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349	LOEWE	009, 028, 023, 024, 016. 003
LG	332, 338	MATSUI	013, 016
LOEWE	358, 355, 360, 361, 320, 351	ONKYO	022
MATSUI	356, 357	PANASONIC	018, 027, 020, 002
ORION	328	PHILIPS	009, 028, 023, 024, 016. 003
PANASONIC	321, 323	PIONEER	004
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359	SAMSUNG	11, 14
SAMSUNG	339, 340, 341, 345	SANYO	007
SANYO	335, 336	SHARP	019, 027
SHARP	324	THOMSON	012
THOMSON	319, 350	TOSHIBA	003
TOSHIBA	337	YAMAHA	018, 027, 020, 002

Troubleshooting

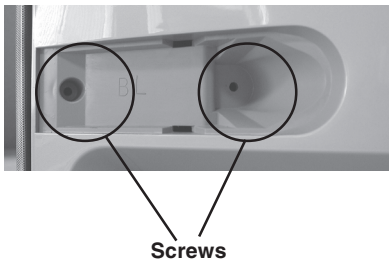
Here are some simple solutions to problems which may affect the picture and sound.

Problem	**Cause**
No picture, no sound.	• Power off. • TV in standby. • Aerial disconnected.
Poor or no picture (screen is dark), but good sound.	• Picture preset level adjustment.
No picture on any channel after digital tuning.	• No digital transmissions in your area. • No digital transmissions from the transmitter you are currently using. • Weak signal. • Unsuitable aerial.
Some channels are blank.	• Scrambled/subscription-only channel. • Programme used only for data (no picture or sound). • Programme not being transmitted.
Standby indicator flashing.	• Digital mode Timer Record active (regular flash). • Fault (irregular flash).
Good picture, no sound.	• Volume control.
Poor picture quality.	• Wrong external mode selected on an RGB video source.
No colour on colour programmes.	• Colour level setting.
Remote control does not function.	• Batteries low.
Distorted picture when changing programmes or selecting Teletext.	• Inputs from external equipment not switched off.
Cause	**Solution**
Power off.	• Plug in the TV.
TV in standby.	• Press the ⏻ button on the front of the TV. • If the ⏻ indicator is on press the I/⏻ button or a numbered button on the remote control.
Aerial disconnected.	• Check the aerial connection.
Picture level adjustment.	• Select 'Picture Adjustment' menu then adjust the brightness, picture and colour levels.
No digital transmissions in your area.	• Tune in the analogue channels available using the 'Manually tuning analogue signals' instruction in this manual, then contact a local installer to find out when digital transmissions begin in your area.
No digital transmissions from the transmitter you are currently using.	• Contact a local installer to find out which transmitter you should be pointing your aerial at.
Unsuitable aerial.	• Change your aerial to cover the channels used by digital programmes. (Contact a local installer)
Weak signal.	• Ensure aerial is correctly aligned to transmitter. • Ensure aerial is plugged directly into the TV (not through other equipment). • Upgrade to a higher gain aerial.
Scrambled/subscription-only channel.	• Subscribe to pay-per-view broadcaster.
Programme information without picture or sound.	• See 'Skipping a programme' section. • See 'Re-arranging your channels' section.
Fault.	• Do not open the cabinet, refer to qualified personnel. • Contact your nearest Sony Service Centre.
Volume control.	• Press the + button on the remote control. • If 🔇 is displayed on the screen, press the 🔇 button on the remote control.
Wrong external mode selected.	• Press the ⏎ button repeatedly until the RGB symbol ⏎ is displayed on screen.
Colour level setting.	• Select 'Picture Adjustment' menu on the TV menu system then adjust the colour setting.

- **If you continue to have these problems, have your TV serviced by qualified personnel or you can contact the Sony UK Digital HelpLine on 0870 600 1717.**
- **NEVER open the casing yourself.**

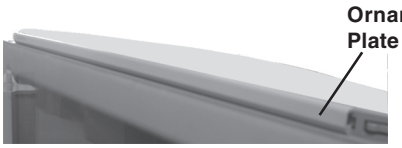
SECTION 2 DISASSEMBLY

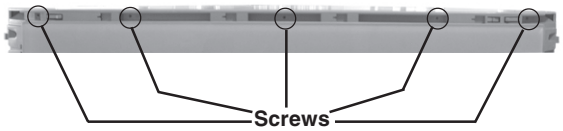
2-1. Rear Cover Removal (Step 1)



Using a narrow blade screwdriver lever off the 4 screw covers from the rear of the set. Remove the 12 speaker grill and rear cover fixing screws. (See 2-3.)

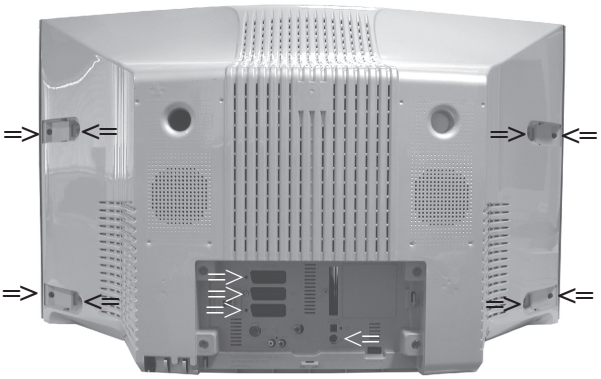
2-2. Rear Cover Removal (Step 2)





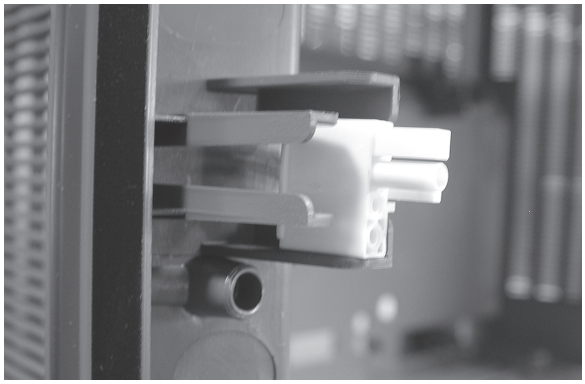
Remove the speaker grills by holding top and bottom and sliding away from the set. Remove the ornamental plate from the top front of the beznet by sliding to the right. Remove the 5 screws indicated from the top front of the set.

2-3. Rear Cover Removal (Step 3)



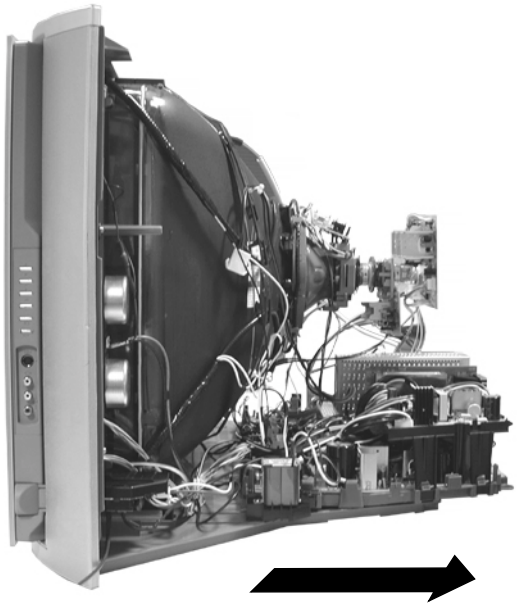
Remove the rear cover by sliding backwards away from the picture tube. Take care when removing the rear cover not to damage the speaker cables [Disconnect the speaker connector] as speakers are fitted inside the rear cover.

2-4. Speaker Connector Disconnection

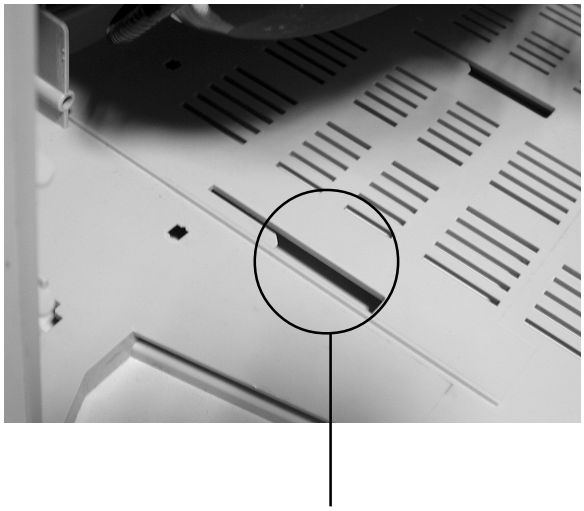


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the rear cover.

2-5. Chassis Removal and Refitting

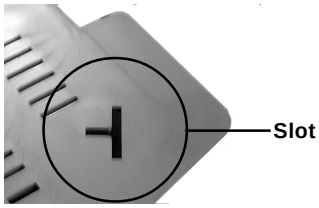


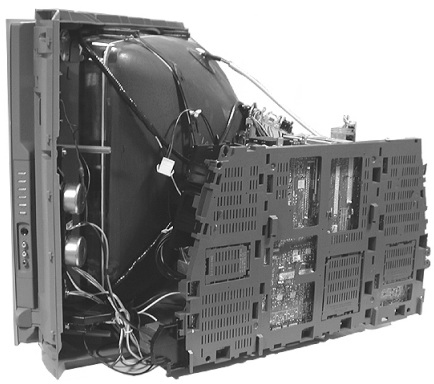
To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the interconnecting leads in their respective purse locks.

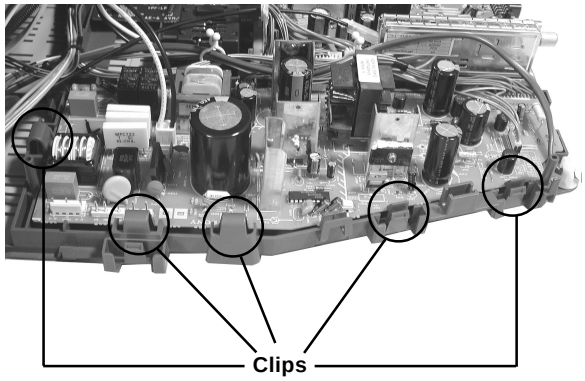
2-6. Service Position





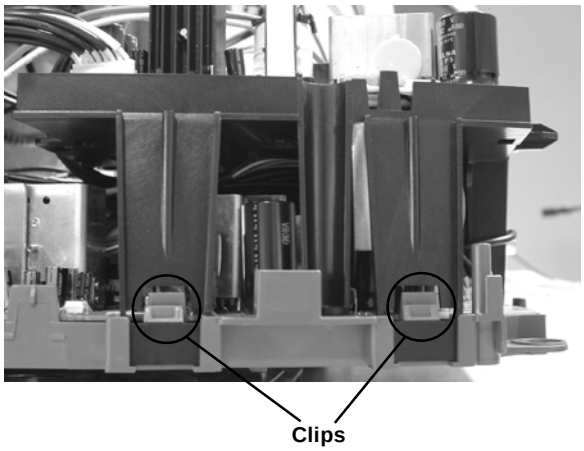
Using the slot on the rear left of the beznet position the chassis as indicated to access the solder side. To gain access to the underside of the boards follow the instructions on page 18. [Removal and Replacement of the main bracket bottom plates].

2-7. D and G Board Removal



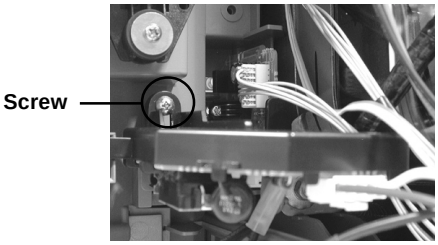
To remove the G Board release the clips circled and ease the board gently away from the support bracket. Removal of the D Board follows the same procedure.

2-8. G1 Bracket Removal

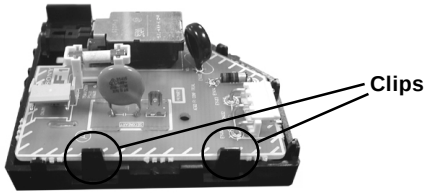


To remove the G1 Bracket release the four clips (two on each side of the bracket) and carefully lift away from the chassis.

2-9. F1 Board Removal

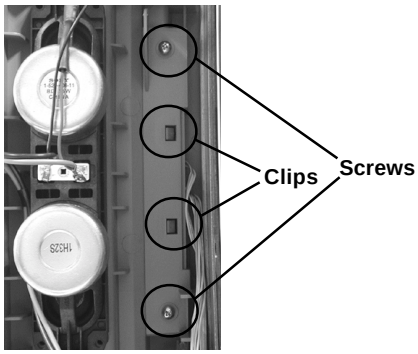


Remove the F1 bracket by removing the screw indicated and sliding the bracket away from the beznet.

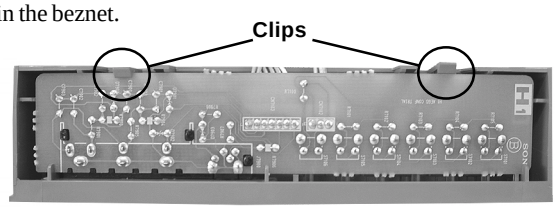


To remove the F1 board release the two clips circled and ease the board gently away from the support bracket.

2-10. H1 Board Removal



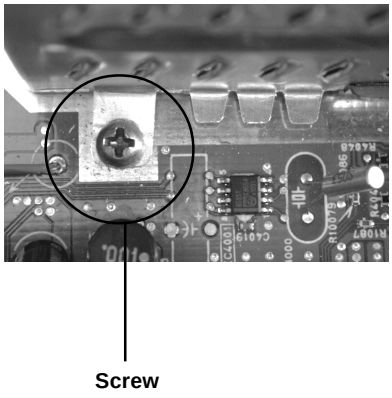
Remove the H1 bracket by removing the screws indicated. Release the two clips circled and ease the bracket out of its slot in the beznet.



To remove the H1 board release the two clips circled and ease the board gently away from the support bracket.

Note : Removal of the H3 Board follows the same procedure.

2-11. Removal of N Board Shield

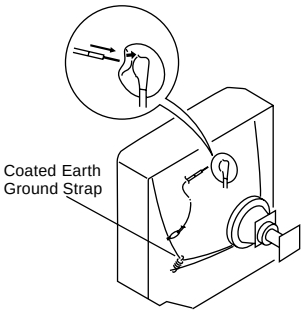


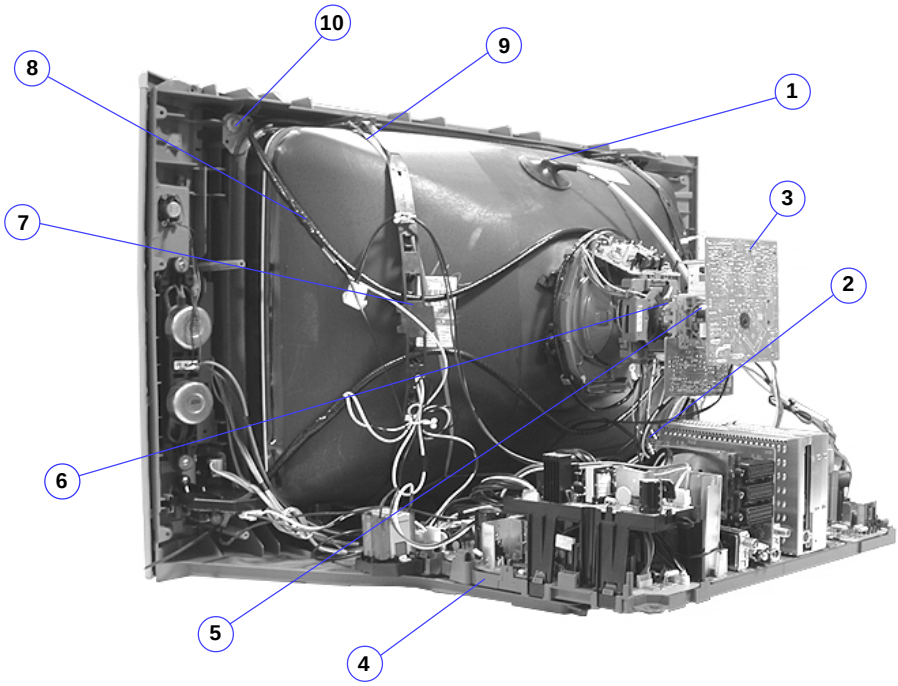
To remove the N Board shield, release the two fixing screws and lift the shield vertically until it is clear of the chassis.

2-12. Picture Tube Removal

WARNING:
BEFORE REMOVING
THE ANODE CAP

High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT ***before*** attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.

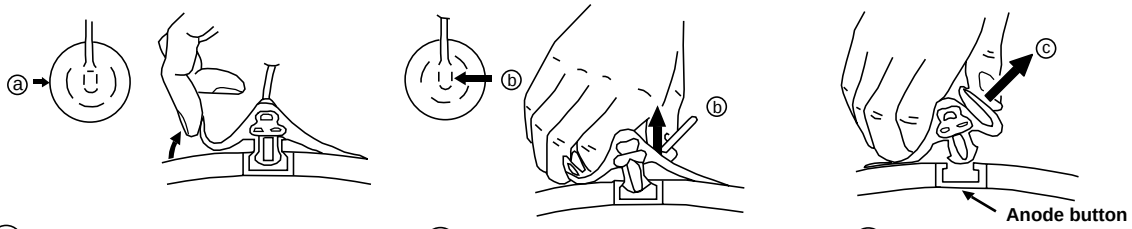




1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tentioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
    [Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

*** REMOVING PROCEDURES.**



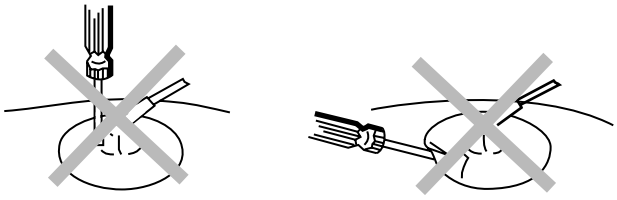
① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ

② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ

③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

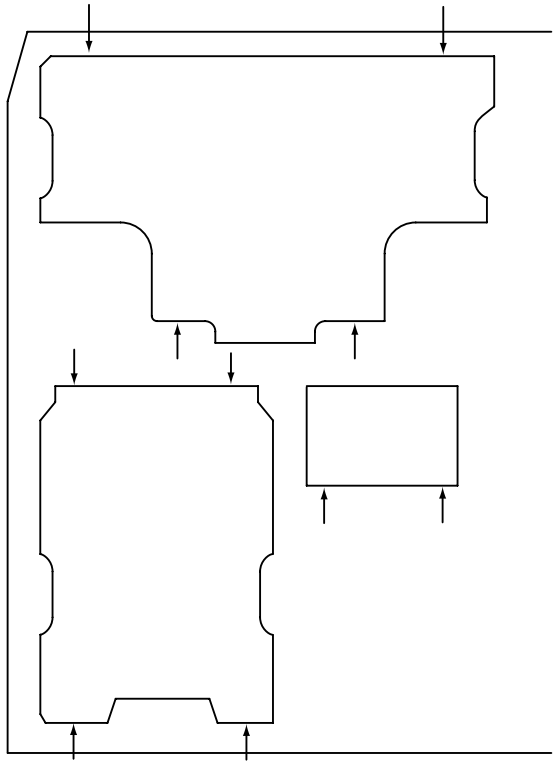


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of some of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed.
This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 3 plates fitted to the main bracket and secured by3 gates.
Only remove the necessary plate to gain access to the printed wiring board.

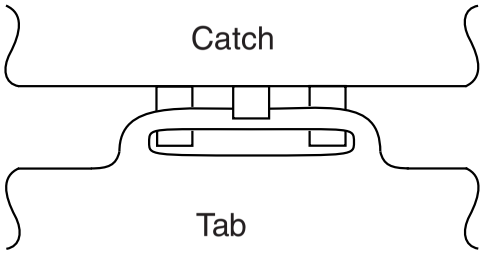


⚠ For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.

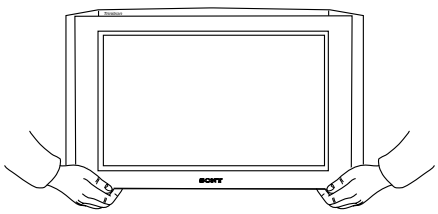


From time to time dust particles or condensation may get trapped between the glass panel and the TV screen. These instructions will guide you through the steps required to both remove and re-fit the glass panel safely.

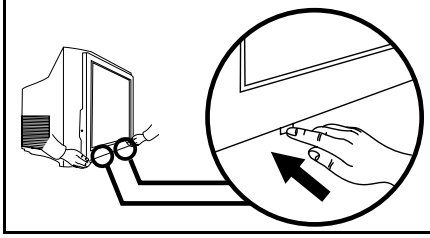
Removing the glass panel

NEVER attempt to remove the glass panel on your own - for safety reasons Sony recommends that two people carry out the following procedure at all times.

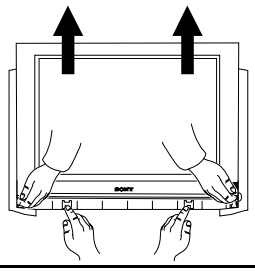
1. Support the bottom of the glass panel as shown **AT ALL TIMES**.



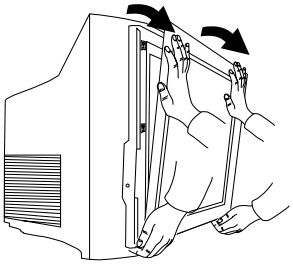
2. Push the clips located on the underside of the TV, as shown, to release the glass panel.



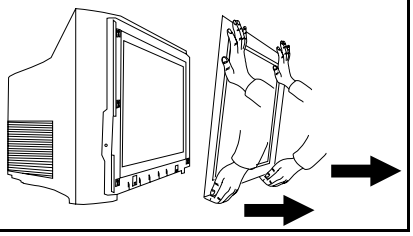
3. Whilst pushing the release clip, slide the glass panel up.



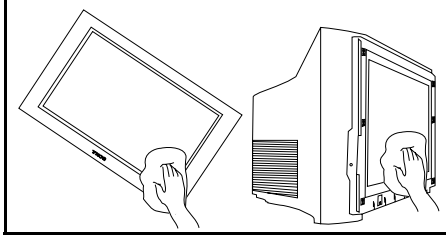
4. Supporting the glass panel, tilt it away from the TV.



5. Carefully remove the glass panel and place it safely in an upright position. To avoid injury or damage, do not leave it on the floor.



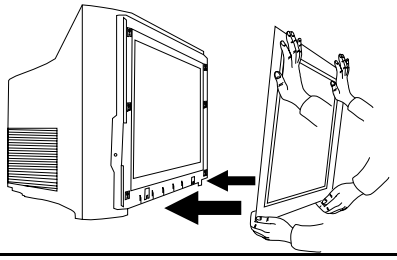
6. Clean both sides of the glass and the TV screen. Use a soft, damp, lint free cloth. Do not use any chemical solutions or abrasive cleaners.



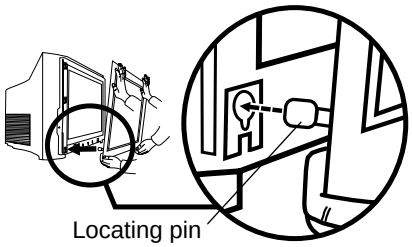
Re-fitting the glass panel

NEVER attempt to re-fit the glass panel on your own - for safety reasons Sony recommends that two people carry out the following procedure at all times.

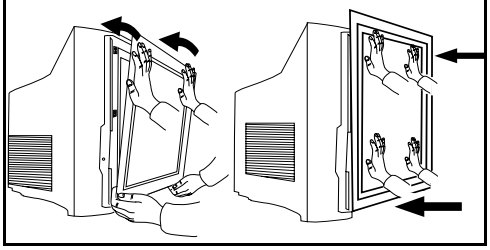
1. Lift the glass, and move toward the TV.



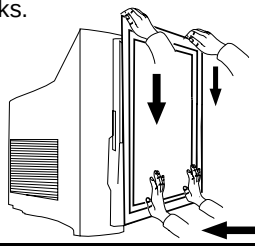
2. Insert the bottom locating pins of the glass panel into the keyhole slots on the TV.



3. Tilt the glass panel forwards at the top to engage all the locating pins, then push forward firmly to secure.

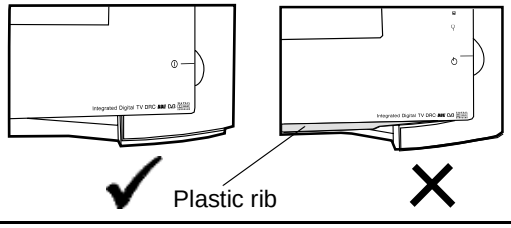


4. While still maintaining forward pressure to the bottom of the glass, carefully slide the glass down until it locks.



CAUTION

Before removing your hands check that you are unable to move the glass. When correctly fitted, the plastic rib shown in the drawing below should not be visible.



Safety Note

The glass panel supplied complies with all relevant safety regulations. However, should the glass become damaged at any time, it is strongly recommended that a replacement is obtained from an authorised Sony dealer.

SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast ..... 80% [or remote control normal]

Brightness 50%

Carry out the adjustments in the following order :

3-1. Beam Landing.
3-2. Convergence.
3-3. Focus.
3-4. White Balance.

Note : Test equipment required.
1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

3-1. Beam Landing

1. Input an all white signal from the pattern generator. Set the Contrast and Brightness to normal.
2. Set the pattern generator raster signal to Red.
3. Move the deflection yoke forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 - 3-3].
4. Move the deflection yoke backwards and adjust so that the entire screen becomes Red. [See Fig.3-1]
5. Switch the raster signal to Blue, then to Green and verify the condition.
6. When the position of the deflection yoke has been determined, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

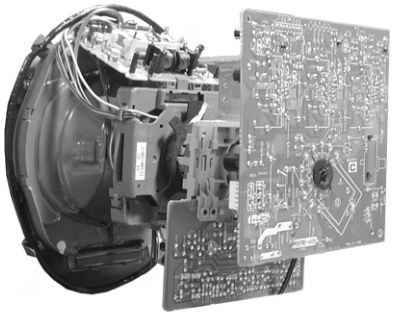


Fig. 3-1.

Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

Fig. 3-2.

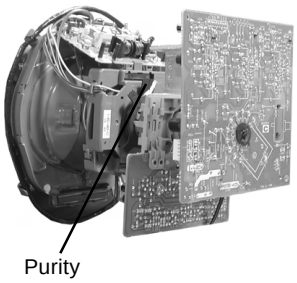
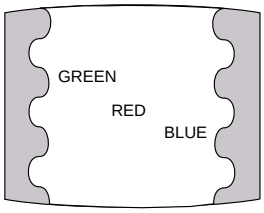


Fig. 3-3.



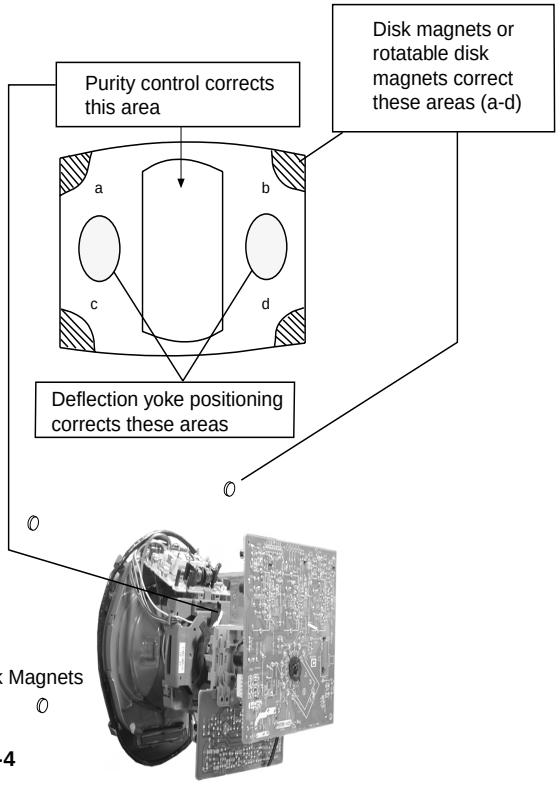


Fig.3-4

3-2. Convergence

Preparation:

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

Horizontal and Vertical Static Convergence

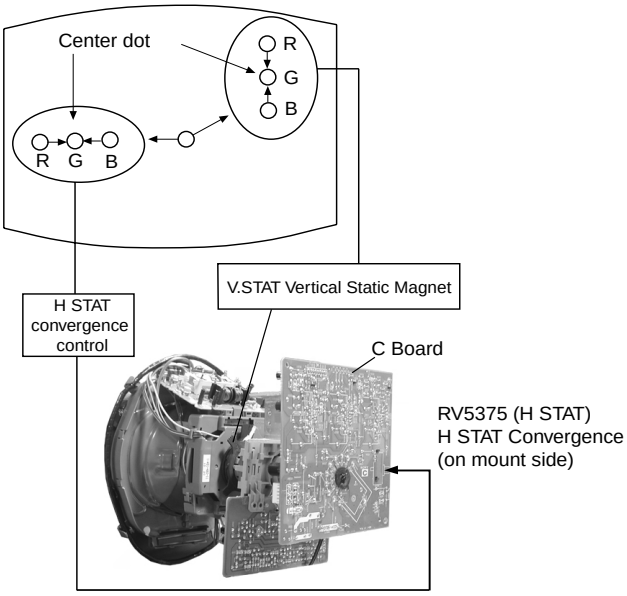
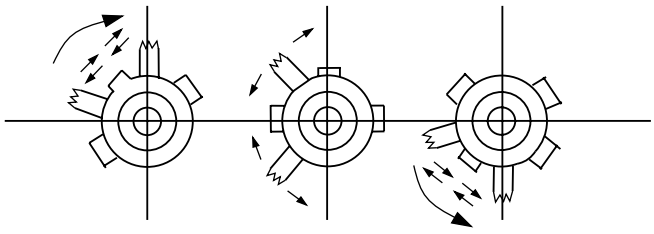


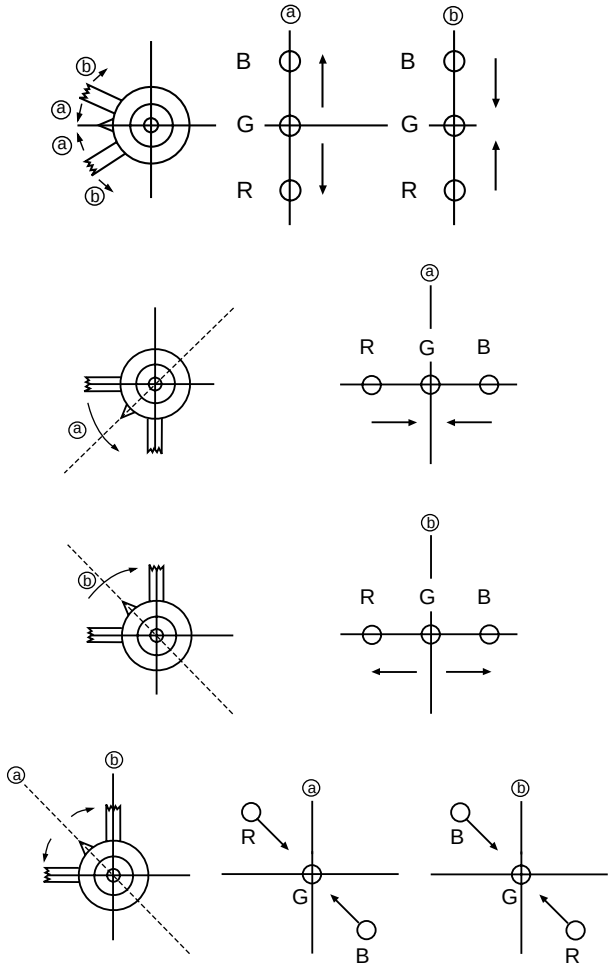
Fig.3-5

1. [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
2. [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below.
   [In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

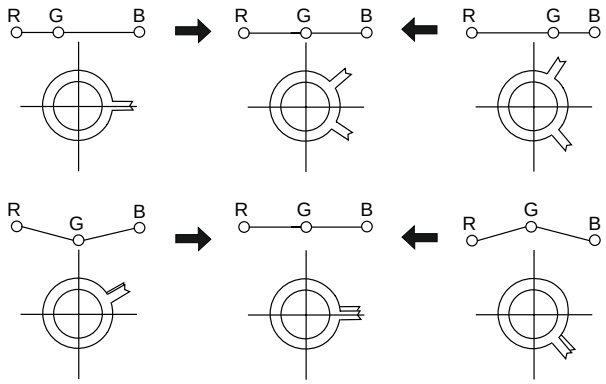
   - Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the Red, Green and Blue points move as indicated below.



Operation of the BMC (Hexapole) magnet.



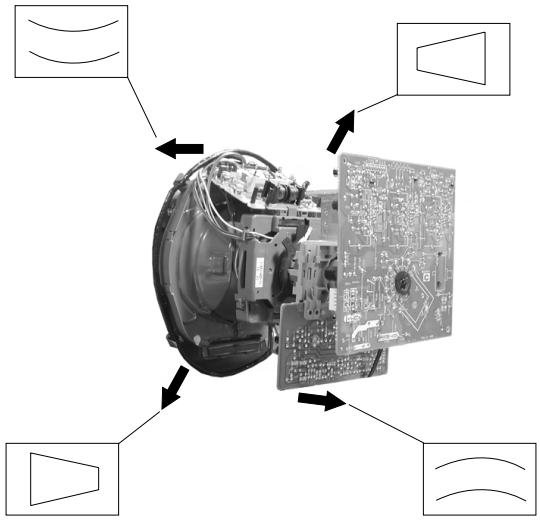
The movement of the magnets interact with each other and so the respective dot position should be monitored while carrying out this adjustment.
Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen
(by moving the dots in the horizontal direction).

Geometry Adjustment.

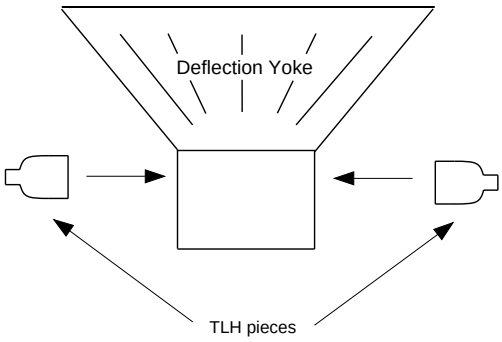
Preparation:

Before starting this adjustment, adjust the horizontal and vertical static convergence.

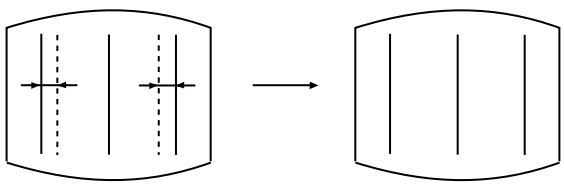
1. Remove the deflection yoke spacer.
2. Tilt the deflection yoke as indicated in the figure below and optimise the geometry.
   Tilting the DY Up and Down will balance the upper and lower pin adjustment.
   Tilting the DY Left and Right will balance the H-Trap adjustment.
3. Re-install the deflection yoke spacer.



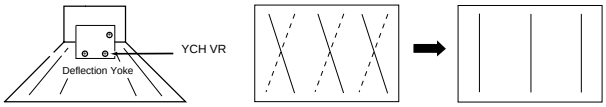
HTIL Adjustment



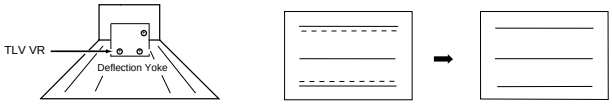
HTIL correction can be performed by adding a TLH correction assembly to the Deflection yoke.



YCH Adjustment

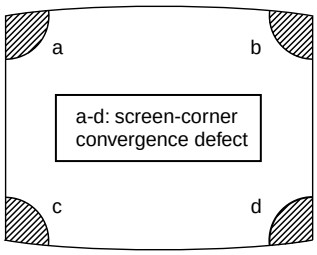


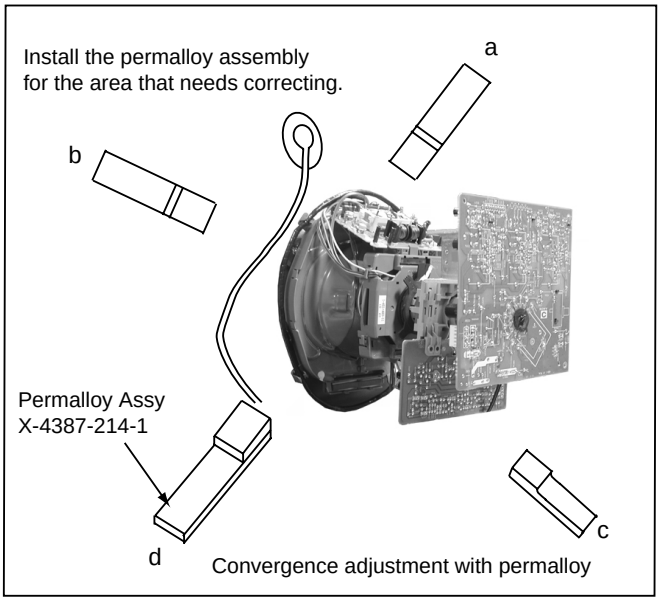
TLV Adjustment



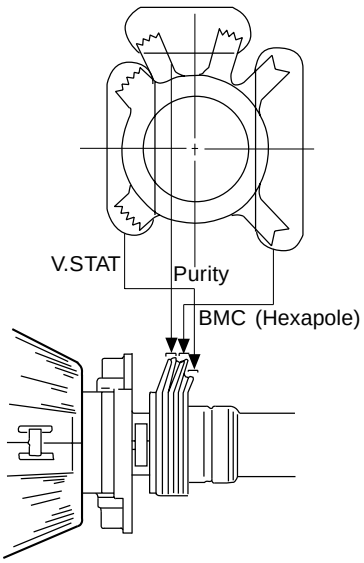
Screen Corner Convergence

If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



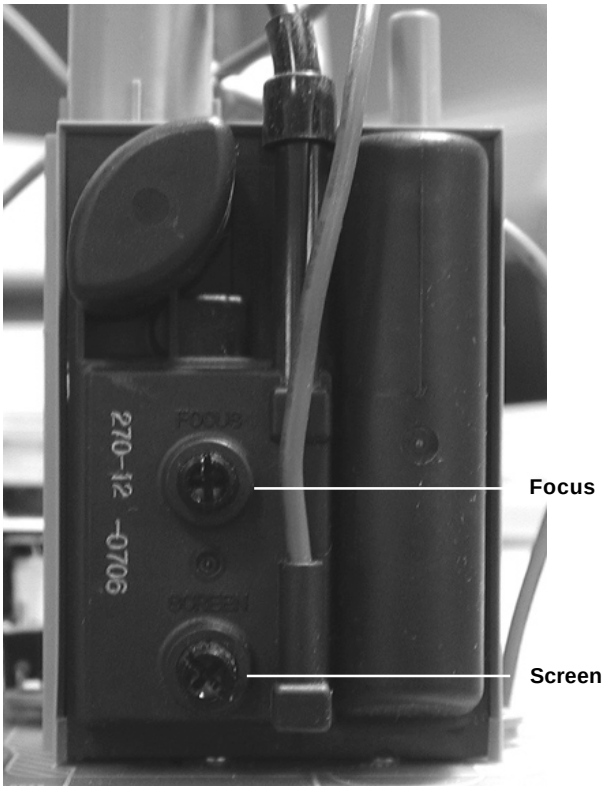


Layout of each control



3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
   Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R,G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the Flyback Transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 24]
3. Enter into the 'Service Mode' by pressing 'VIDEO', 'VIDEO' and 'MENU' 'MENU' on the Remote Commander.
4. Select 'Device Register Setting' > 'Backend' from the on screen menu display.
5. Set the 'Contrast' to MAX.
6. Set the 'R-Drive' to 25.
7. Adjust the 'G-Drive' and the 'B-Drive' so that the white balance becomes optimum.
8. Press the 'OK' button to write the data for each item.
9. Set the 'Contrast' to MIN.
10. Adjust the 'G-Cutoff', and the 'R-Cutoff' with the left and right buttons on the remote commander so that the white balance becomes optimum.
11. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments

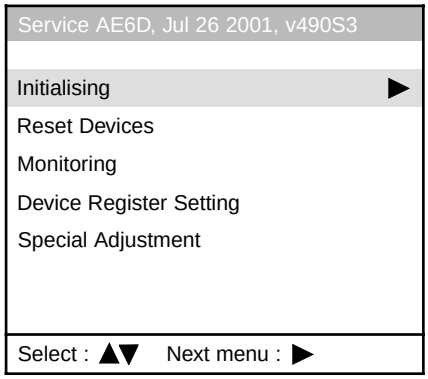
Service adjustments to this model can be performed using the supplied remote Commander RM-933 (KD-32DX100U) and RM-935 (KD-32NX100U/ KD-32NS100B).

Programming the Remote Commander for Operation in Service Mode

1. Press the VCR/TV/DVD button until the TV LED lights.
2. Press and hold the yellow button for approx. 5 seconds until the TV LED flashes quickly.
3. Press 99999. All three LED's should light.
   The remote commander is now set to Service Mode.
4. To return the remote commander to normal operation mode repeat steps 1. and 2. then press 00000. All three LED's should light.
   The remote commander is now set to normal mode.

Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the 'VIDEO' button or on the remote commander twice.
   'TT __' will appear in the upper right corner of the screen.
4. Press the 'MENU' button on the remote commander twice to obtain the following menu on the screen.

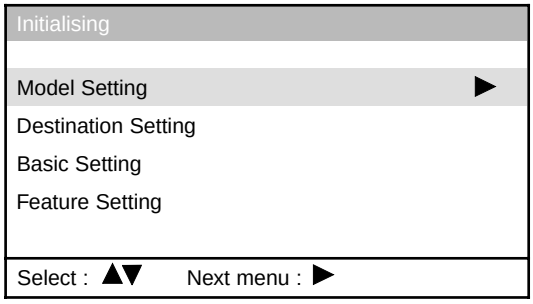


5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'Menu' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

- Before performing any adjustments ensure that the correct model has been selected in the 'Model Setting' menu.
- After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

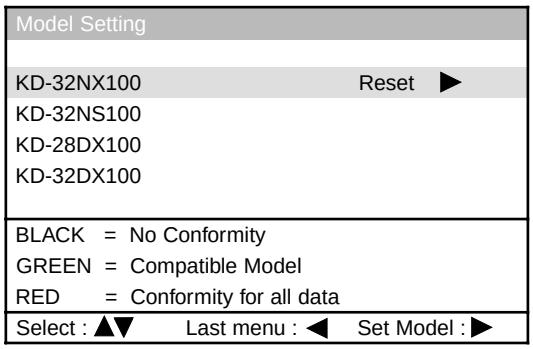
Initialising Menu



Model Setting

The menu contains a list with all the available models of this software to set up the TV set in an easy way. The selection of a model is setting data for its features and hardware resources which cannot be detected by the automatic power on H/W detection as well as a special *model byte* to get an unique model identification for models which cannot be differed by features and hardware resources (e.g. KD-32DX100U and KD-32NX100U).

Before data is set, the user will be asked if he really wants to set a new model. If the user agrees, the destination setting menu is automatically shown.



Indication of Model Compatibility.

Black:
If any data does not match to specific model, the model name is displayed in black.
Green:
All data which is checked by model setting menu concurs to model except model byte.
Red:
All data which is checked by model setting menu concurs to model including model byte.

Note:
After selecting a model, it may be necessary to reset some devices to get the correct data. (Treble/Bass Offset of Sound, deflection adjustments, ...)

Destination Setting

Multi	Reset
A	
B	
D	
E	
K	
R	
U	

BLACK = No Conformity
GREEN = Compatible Model
RED = Conformity for all data

Select : ▲▼ Last menu : ◀ Set Model : ▶

Device Register Setting

- Backend
- Deflection
- Ext Deflection
- Dynamic Convergence
- Colour Decoder 1
- Audio / Video Switch
- Mid - X
- External PLL Mid - X
- Gate Array Chip
- Sound

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Basic Setting

No	Descr	Min	Max	Data
1	Sys.B/G	OFF	ON	ON
2	Sys.D/K	OFF	ON	ON
3	Sys.L	OFF	ON	ON
4	Sys.I (UK)	OFF	ON	ON
5	Sys.I (IRL)	OFF	ON	ON
6	TXTNat.option	1	4	3
7	16:9 CRT	OFF	ON	ON
8	Sub-woofer	OFF	ON	ON
9	Auto stand-by	OFF	ON	ON
10	Comb-filter	OFF	ON	ON
11	Auto YC det	OFF	ON	ON
12	Auto comb det	OFF	ON	ON
13	AV2 Available	OFF	ON	ON
14	AV3 Available	OFF	ON	ON
15	AV4 Available	OFF	ON	ON
16	AV3 Fr & rear	OFF	ON	OFF
17	SECAM Tape	OFF	ON	ON
18	AV1 Sound Mute	OFF	ON	OFF

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Audio/Video Switch

No	Descr	Def	Min	Max	Data
1	CVOUT1	0	0	9	0
2	CVOUT2	2	0	9	2
3	GD1 SW	OFF	OFF	ON	OFF
4	GD2 SW	OFF	OFF	ON	OFF
5	YCOUT 1	0	0	7	0
6	YCOUT 2	1	0	7	1
7	LO0CTRL	OFF	OFF	ON	OFF
8	LO1CTRL	OFF	OFF	ON	OFF
9	AOUT 1	3	0	7	3
10	AOUT 2	3	0	7	3
11	AOUT 3MUTE	OFF	OFF	ON	OFF
12	ZCD SW	ON	OFF	ON	ON
13	AOUT 3	3	0	7	3
14	GROUP DEL	15	0	31	15
15	AOUT3 L/R	0	0	3	0
16	AOUT3VOLF	0	0	7	0
17	AOUT3VOLC	3	0	7	3
18	SYNC1	1	0	1	1
19	SYNC2	1	0	1	1

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Feature Setting

No	Descr	Min	Max	Data
1	PAP	OFF	ON	OFF
2	PAT	OFF	ON	OFF
3	INDEX	OFF	ON	OFF
4	EPG	OFF	ON	ON

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Gate Array Chip

No	Descr	Def	Min	Max	Data
1	SMART	OFF	OFF	ON	OFF
2	ROM Curve	0	0	1	0
3	DAC PD	OFF	OFF	ON	OFF
4	VSTILL1	0	0	1	0
5	S1	0	0	1	0
6	S0	0	0	1	0
7	VDCL	1	0	1	1
8	FFSW	1	0	1	1
9	PKI	1	0	1	1
10	FH	1	0	1	1
11	FV	1	0	1	1
12	H OFFset	0	-15	15	0

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Colour Decoder 1

No	Descr	Def	Min	Max	Data
1	Tint	31	0	63	31
2	P/N Gw	OFF	OFF	ON	OFF
3	P/N ID	OFF	OFF	ON	OFF
4	Sub Colour	7	0	15	7
5	Sub Contr	8	0	15	8
6	Sharp FO	1	0	3	1
7	Sharp EQ	2	0	3	2
8	Sharp Gain	9	0	15	8
9	Y-Out Lev	35	0	63	35
10	BS Point	0	0	3	0
11	C-Out Lev	45	0	63	45
12	DC Rest	0	0	3	0
13	BPF FO	1	0	3	1
14	BPF Q	1	0	3	1
15	Filter Sw	OFF	OFF	ON	OFF
16	C-Trap Sw	1	0	1	0
17	S-D Trap	ON	OFF	ON	ON
18	LPF	ON	OFF	ON	ON
19	Y-DL	8	0	10	8
20	N-Comb	ON	OFF	ON	ON
21	Video Sel	0	0	15	0
22	RGB Sel	0	0	3	0
23	Half Tone	OFF	OFF	ON	OFF
24	CrOFF.1	7	0	15	7
25	CbOFF.1	7	0	15	7
26	CrOFF.2	7	0	15	7
27	CbOFF.2	7	0	15	7
28	V CD Freq	3	0	7	3
29	V CD Mode	1	0	3	1
30	AFC SENS	1	0	3	1
31	MVM	OFF	OFF	ON	OFF
32	S R-Y Adj	6	0	15	6
33	S B-Y Adj	4	0	15	4
34	BELL/HPF	2	0	3	2
35	BELL FO	OFF	OFF	ON	OFF
36	S GP	0	0	3	0
37	S ID	OFF	OFF	ON	OFF
38	RGB1 ENB	OFF	OFF	ON	OFF
39	HS-PH	0	0	1	0
40	Auto SW	1	0	3	1
41	VP-PH	0	0	1	0
42	S/N RATIO	3	0	3	3

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Ext. Deflection

No	Descr	Def	Min	Max	Data
1	DF Phase	185	0	255	185
2	DQP Phase	125	0	255	125
3	Mid Linear	135	0	255	166
4	DQP ac Lvl	126	0	255	124
5	DQP dc Lvl	126	0	255	116

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Backend

No	Descr	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	0	0	3	0
5	Wb-Sw	OFF	OFF	ON	OFF
6	Gamma-L	OFF	OFF	ON	OFF
7	Contrast	40	0	63	43
8	BLK-Bottom	3	0	3	2
9	Hue	20	0	63	32
10	Colour-Axis	1	0	3	1
11	Colour	31	0	63	31
12	CTI-Level	2	0	3	2
13	Brightness	25	0	63	31
14	S-Abl	0	0	3	0
15	Sharpness	25	0	63	30
16	LTI-Level	0	0	3	0
17	R-Drive	35	0	63	43
18	PLimit-Lvl	3	0	3	3
19	G-Drive	41	0	63	41
20	ABL-Mode	0	0	3	0
21	B-Drive	41	0	63	41
22	CTI-Mode	0	0	3	0
23	Sub Bright	6	0	63	31
24	Gamma	0	0	3	3
25	R-Cutoff	31	0	63	31
26	LTI-mode	0	0	3	0
27	G-Cutoff	31	0	63	31
28	DPIC-Level	1	0	3	1
29	B-Cutoff	31	0	63	31
30	DC-Tran	0	0	3	0
31	Sub-Cont	7	0	15	7
32	LRGB2-Lvl	8	0	15	8
33	P-Abl	15	0	15	15
34	ABL-TH	0	0	15	0
35	CB-offset	31	0	63	31
36	Aging-W	OFF	OFF	ON	OFF
37	Aging-B	OFF	OFF	ON	OFF
38	CR-offset	31	0	63	31
39	System	1	0	3	1
40	Y-offset	7	0	15	7
41	VM-Level	2	0	3	2
42	Sharp FO	ON	OFF	ON	ON
43	CD-Off	OFF	OFF	ON	OFF
44	Sharp CD	0	0	3	0
45	Sharp F1	0	0	3	0
46	Pre/Over	2	0	3	2
47	VM-Cor	0	0	3	1
48	VM-F0	0	0	3	0
49	VM-Limit	0	0	3	0
50	VM-Delay	2	0	3	1
51	Sub Colour	0	-8	8	0

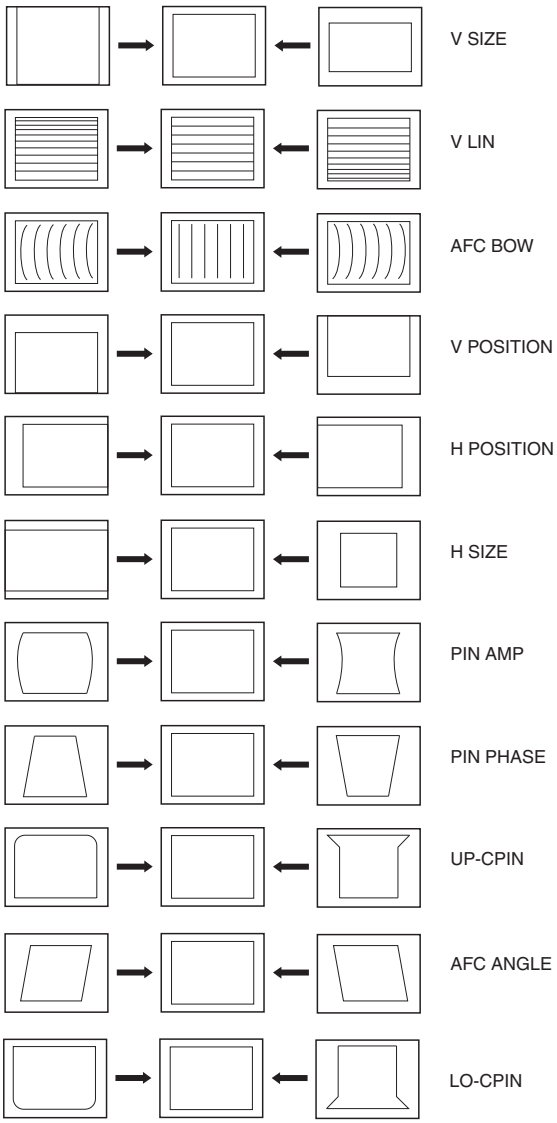
Select : ▲▼ Last menu : ◀ Enter Item : ▶

Deflection					
No	Descr	Def	Min	Max	Data
1	H-Size	31	0	63	38
2	H-Position	22	0	63	15
3	V-Size	20	0	63	17
4	V-Position	31	0	63	27
5	Pin-Amp	31	0	63	29
6	Up-Cpin	31	0	63	27
7	Lo-Cpin	31	0	63	39
8	AFC-Bow	7	0	63	40
9	AFC-Angle	7	0	63	25
10	Pin-Phase	31	0	63	23
11	V-Lin	7	0	15	7
12	S-Corr	7	0	15	5
13	Rotation-1	1	0	3	0
14	Rotation-2	15	0	15	7
15	H-Trap	1	0	31	8
16	H Linear	85	0	255	85
17	HC-Par-Amp	0	0	63	37
18	MP-Par-Amp	3	0	15	7
19	UpPin Axis	3	0	3	2
20	LoPin Axis	3	0	3	2
21	UpPin Gain	3	0	3	0
22	LoPin Gain	3	0	3	0
23	AKB-Tim	15	0	31	15
24	BLK-Off	OFF	OFF	ON	OFF
25	AKB-Off	OFF	OFF	ON	OFF
26	Up-Blk	0	0	15	0
27	Lo-Blk	0	0	15	0
28	V-On	ON	OFF	ON	ON
29	Ew-Dc	OFF	OFF	ON	OFF
30	Uc-Pol	OFF	OFF	ON	OFF
31	Vblk-Sw	OFF	OFF	ON	OFF
32	Sync-Phase	0	0	3	0
33	AFC-Mode	2	0	3	2
34	Rst-Sw	OFF	OFF	ON	OFF
35	Left-Blk	52	0	63	52
36	Clp-Phase	3	0	3	3
37	Right-Blk	8	0	63	8
38	Clp-Gate	OFF	OFF	ON	OFF
39	Hblk-Sw	OFF	OFF	ON	OFF
40	V-Aspect	0	0	63	0
41	Zoom-Sw	OFF	OFF	ON	OFF
42	Jmp-Sw	OFF	OFF	ON	OFF
43	V-Scroll	31	0	63	31
44	V-Freq	2	0	3	2
45	Up-Vlin	0	0	15	0
46	Lo-Vlin	0	0	15	0
47	V-Comp	0	0	15	9
48	H-Comp	0	0	15	0
49	VSaw1-Dc	7	0	15	7
50	Pin-Comp	0	0	7	0
51	VSaw1-Amp	8	0	31	0
52	AFC-Comp	2	0	3	2
53	MP-Par-Dc	2	0	15	2
54	HC-Par-Dc	31	0	63	31
55	Asp-Sw	OFF	OFF	ON	OFF
56	VDrv-Sw	OFF	OFF	ON	OFF
57	HC-Par-Pha	31	0	63	31

Select : ▲▼ Last menu : ◀ Enter Item : ▶

Deflection System Adjustment

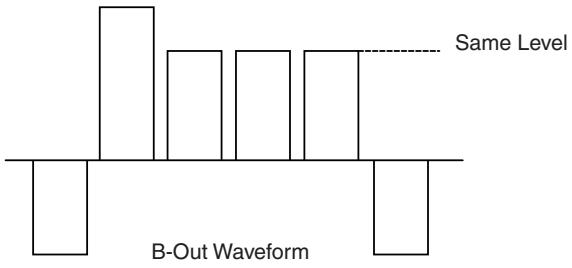
1. Program the Remote Commander for operation in Service Mode. [See Page 24] and enter into 'Service Mode' by pressing 'VIDEO' button twice. Enter into the 'Device Register Setting' then 'Deflection' service menu.
2. Select and adjust each item in order to obtain the optimum image.



4-2. Volume Electrical Adjustments

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN5400 pin 5 located on the C Board.
3. Program the Remote Commander for operation in Service Mode. [See Page 24] and enter into 'Service Mode' by pressing 'VIDEO' button twice. Enter into the 'Device Register Setting' then 'Backend' service menu.
4. Adjust 'Sub Colour' data so that the right sides of the waveform are of equal height.



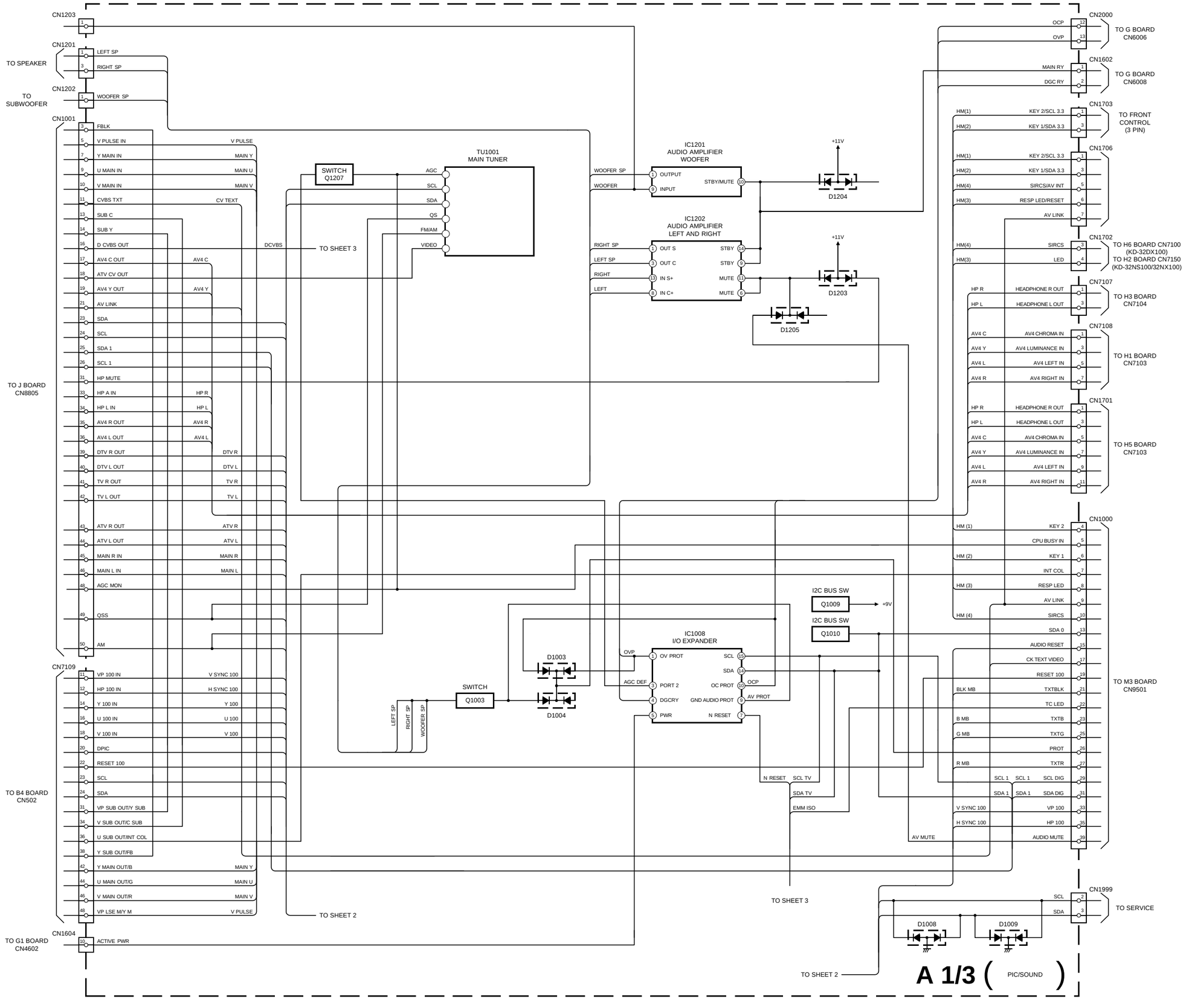
4-3. TEST MODE 2:

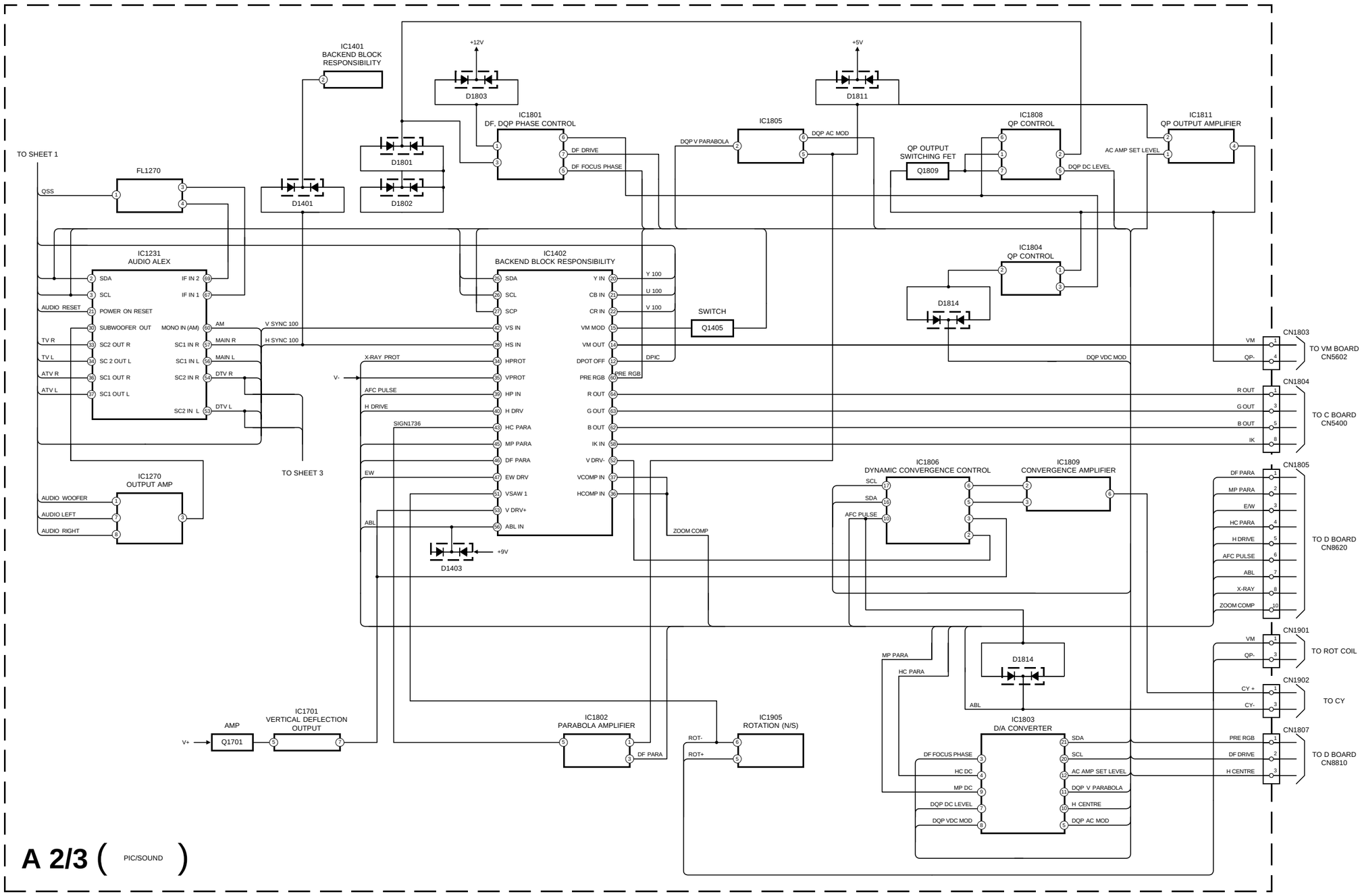
Test Mode 2 is available by programming the remote commander for operation in service mode (see page 24) and pressing the 'VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release the 'Test mode 2', press '0' twice or switch the TV set into Stand-by mode.

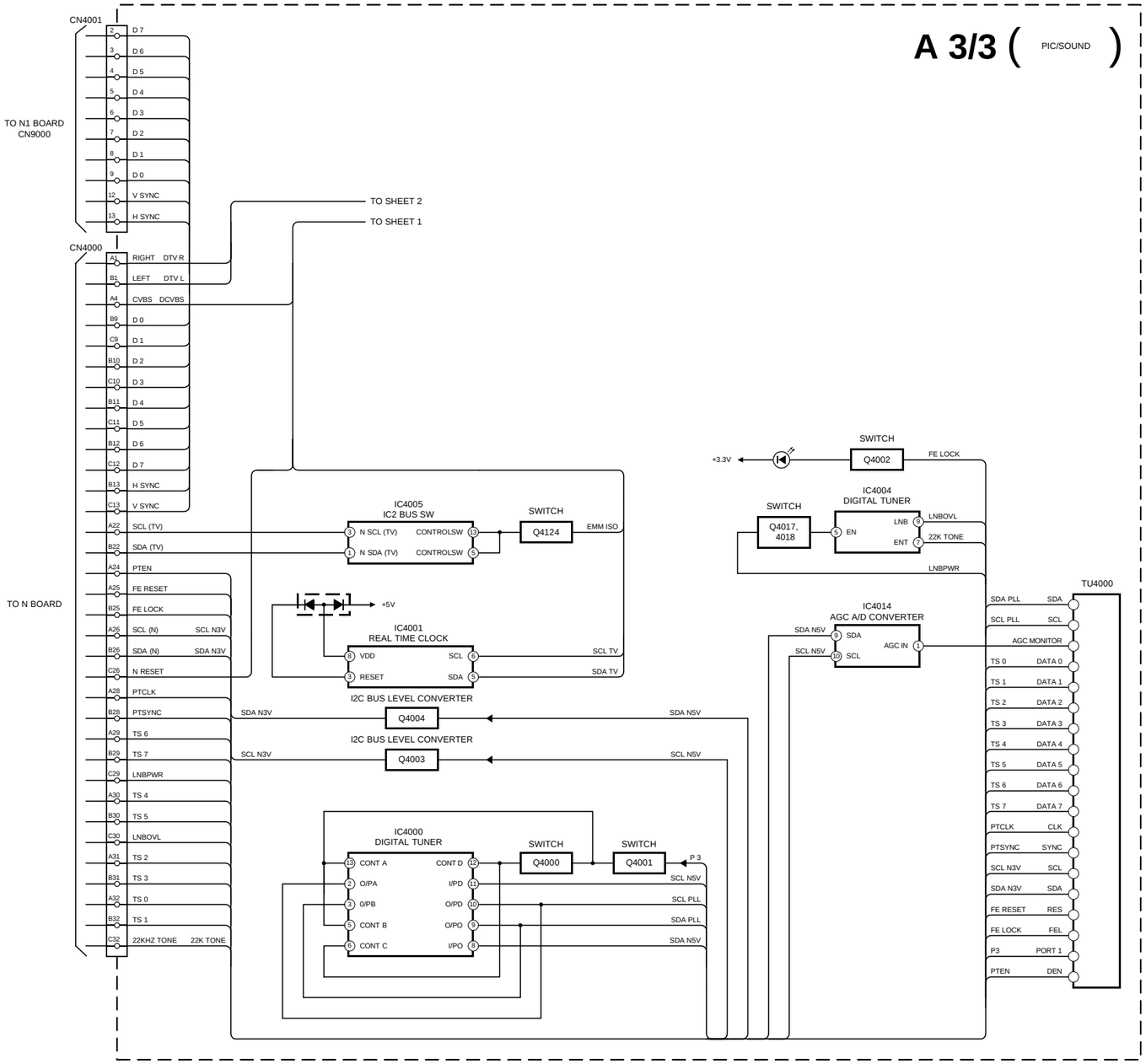
00	'TT' mode off
01	Picture maximum
02	Picture minimum
03	Volume=30% (speaker/headphone)
04	Volume=50% (speaker/headphone)
05	Volume=65% (speaker/headphone)
06	Volume=80% (speaker/headphone)
07	Ageing mode
08	Shipping Condition
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configeration
14	No function
15	Picture Rotation test
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	No function
21	Destination A
22	Destination L
23	Destination E
24	Destination U
25	Destination D
26	Destination B
27	Destination K
28	Destination R
30	No function
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 <> 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	No function
41	Screen mode check
42	Re-initialise geometry (program 99)
43	No function
44	DRC100
45	DRC50
46	Reserved for dealer commander
47	Re-initialise NVM (program 99)
48	Set NVM as non virgin
49	Set NVM as virgin
50	No function
51	No function
52	No function
53	No function

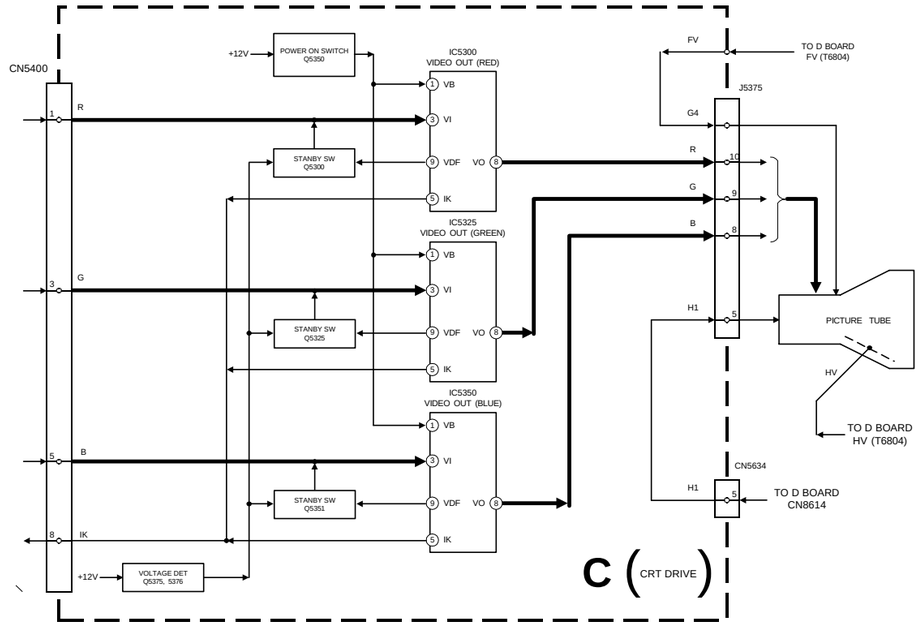
54	No function
55	No function
56	No function
57	No function
58	Send NVM data to service connector
59	Set NVM data from service connector
60	No function
61	Service mode
62	Production mode
63	Set picture reset NVM data from ROM
64	Set picture reset NVM data from actual picture adjustment
65	Reset error codes
67	N board reset
68	Ignore errors on
69	Ignore errors off
70	No function
71	Copy default dates of PANORAMA/external PLL/MID/MIDX from ROM into NVM
72	AV link test
73	Clear all programmes except 1-5 and all station labels
74	Adjustment for PIN Amp/Upper Corner Pin for MID, EPG and 12501 mode
75	Adjustment for Lower Corner Pin/ Trapezoid for MID, EPG, 12501, SMART & 4:3 mode
76	Adjustment for M Pin for 12501mode
77	Picture Booster check
78	No video mute
81	BER display mode
82	AV monitor mode
83	2k, 8k, 2k & 8k
84	EEPROM clear
85	File system re-format
86	FE2d/others
87	Personal ID reset
88	Digital shipping
90	No function
91	Focus adjustment (Focus Phase/Ext. Deflection) with left and right joystick button
92	Focus adjustment (DC LevelFocus Phase/Ext. Deflection) with left and right joystick button
93	Reserved for software group only
94	INDEX mode test command, released by 00
95	OSD mute ON/OFF
96	TS pass through CI module
97	Digital TT test command
98	EMMA recovery enable/disable
99	Speaker check, released by 00

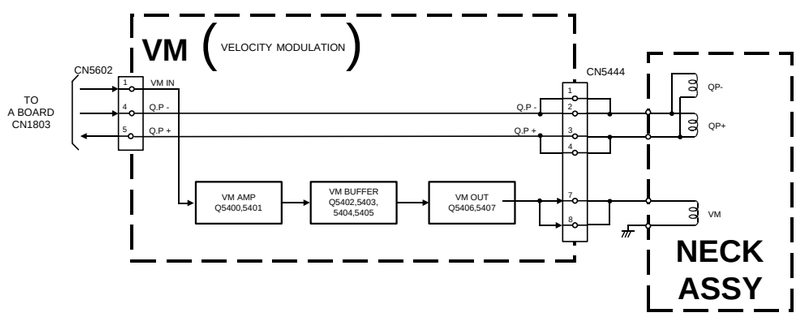
5-1. BLOCK DIAGRAMS (1)



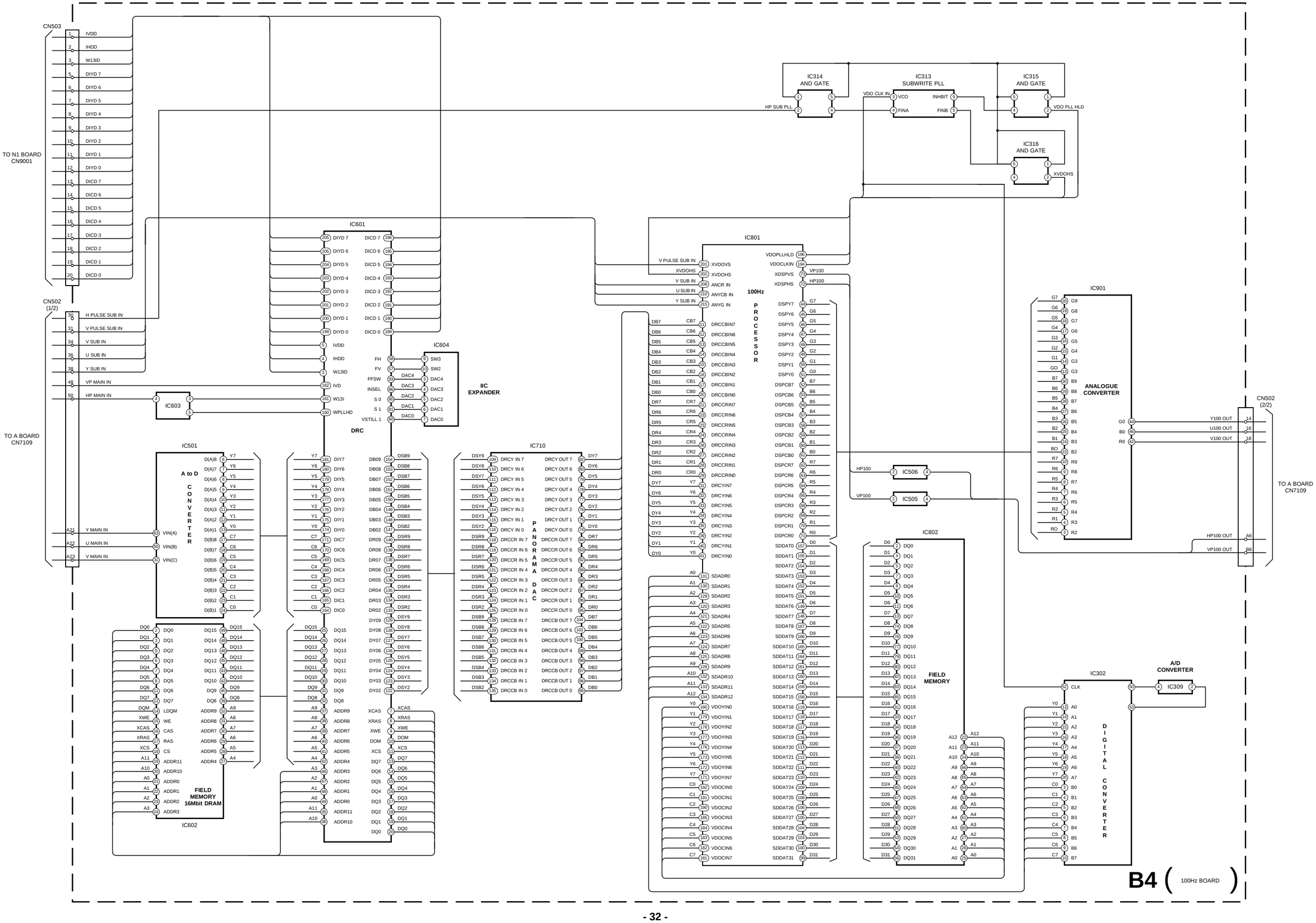

IC1401
BACKEND BLOCK
RESPONSIBILITY
+12V
D1803
+5V
D1811
IC1801
DF, DQP PHASE CONTROL
DF DRIVE
DF FOCUS PHASE
IC1805
DQP V PARABOLA
DQP AC MOD
IC1808
QP CONTROL
DQP DC LEVEL
IC1811
QP OUTPUT AMPLIFIER
AC AMP SET LEVEL
QP OUTPUT
SWITCHING FET
Q1809
D1801
D1802
D1401
TO SHEET 1
FL1270
QSS
IC1231
AUDIO ALEX
SDA
SCL
POWER ON RESET
SUBWOOFER OUT
SC2 OUT R
SC 2 OUT L
SC1 OUT R
SC1 OUT L
IF IN 2
IF IN 1
MONO IN (AM)
SC1 IN R
SC1 IN L
SC2 IN R
SC2 IN L
AM
MAIN R
MAIN L
DTV R
DTV L
AUDIO RESET
TV R
TV L
ATV R
ATV L
V SYNC 100
H SYNC 100
IC1402
BACKEND BLOCK RESPONSIBILITY
SCP
VS IN
HS IN
HPROT
VPROT
HP IN
H DRV
HC PARA
MP PARA
DF PARA
EW DRV
VSAW 1
V DRV+
ABL IN
Y IN
CB IN
CR IN
VM MOD
VM OUT
DPOT OFF
PRE RGB
R OUT
G OUT
B OUT
IK IN
V DRV-
VCOMP IN
HCOMP IN
Y 100
U 100
V 100
SWITCH
Q1405
IC1804
QP CONTROL
D1814
DQP VDC MOD
DPIC
X-RAY PROT
V-
AFC PULSE
H DRIVE
SIGN1736
EW
ABL
ZOOM COMP
D1403
+9V
TO SHEET 3
IC1270
OUTPUT AMP
AUDIO WOOFER
AUDIO LEFT
AUDIO RIGHT
IC1806
DYNAMIC CONVERGENCE CONTROL
IC1809
CONVERGENCE AMPLIFIER
SCL
SDA
AFC PULSE
MP PARA
HC PARA
ABL
D1814
IC1803
D/A CONVERTER
DF FOCUS PHASE
HC DC
MP DC
DQP DC LEVEL
DQP VDC MOD
SDA
SCL
AC AMP SET LEVEL
DQP V PARABOLA
H CENTRE
DQP AC MOD
IC1701
VERTICAL DEFLECTION
OUTPUT
AMP
Q1701
V+
IC1802
PARABOLA AMPLIFIER
DF PARA
IC1905
ROTATION (N/S)
ROT-
ROT+
CN1803
VM
QP-
TO VM BOARD
CN5602
CN1804
R OUT
G OUT
B OUT
IK
TO C BOARD
CN5400
CN1805
DF PARA
MP PARA
E/W
HC PARA
H DRIVE
AFC PULSE
ABL
X-RAY
ZOOM COMP
TO D BOARD
CN8620
CN1901
VM
QP-
TO ROT COIL
CN1902
CY +
CY-
TO CY
CN1807
PRE RGB
DF DRIVE
H CENTRE
TO D BOARD
CN8810
A 2/3 (PIC/SOUND)


A 3/3 (PIC/SOUND)
CN4001
TO N1 BOARD CN9000
D 7
D 6
D 5
D 4
D 3
D 2
D 1
D 0
V SYNC
H SYNC
CN4000
TO SHEET 2
TO SHEET 1
RIGHT DTV R
LEFT DTV L
CVBS DCVBS
D 0
D 1
D 2
D 3
D 4
D 5
D 6
D 7
H SYNC
V SYNC
SCL (TV)
SDA (TV)
PTEN
FE RESET
FE LOCK
SCL (N) SCL N3V
SDA (N) SDA N3V
N RESET
PTCLK
PTSYNC
TS 6
TS 7
LNBPWR
TS 4
TS 5
LNBOVL
TS 2
TS 3
TS 0
TS 1
22KHZ TONE 22K TONE
TO N BOARD
IC4005
IC2 BUS SW
N SCL (TV)
N SDA (TV)
CONTROLSW
SWITCH
Q4124
EMM ISO
+5V
IC4001
REAL TIME CLOCK
VDD
RESET
SCL
SDA
SCL TV
SDA TV
I2C BUS LEVEL CONVERTER
Q4004
SDA N3V
SDA N5V
I2C BUS LEVEL CONVERTER
Q4003
SCL N3V
SCL N5V
IC4000
DIGITAL TUNER
CONT A
O/PA
O/PB
CONT B
CONT C
CONT D
I/PD
O/PD
O/PO
I/PO
SWITCH
Q4000
SWITCH
Q4001
P 3
SCL N5V
SCL PLL
SDA PLL
SDA N5V
+3.3V
SWITCH
Q4002
FE LOCK
SWITCH
Q4017, 4018
EN
IC4004
DIGITAL TUNER
LNB
ENT
LNBOVL
22K TONE
LNBPWR
IC4014
AGC A/D CONVERTER
SDA
SCL
AGC IN
AGC MONITOR
TU4000
SDA PLL
SCL PLL
TS 0
TS 1
TS 2
TS 3
TS 4
TS 5
TS 6
TS 7
PTCLK
PTSYNC
SCL N3V
SDA N3V
FE RESET
FE LOCK
P3
PTEN
DATA 0
DATA 1
DATA 2
DATA 3
DATA 4
DATA 5
DATA 6
DATA 7
CLK
SYNC
SCL
SDA
RES
FEL
PORT 1
DEN

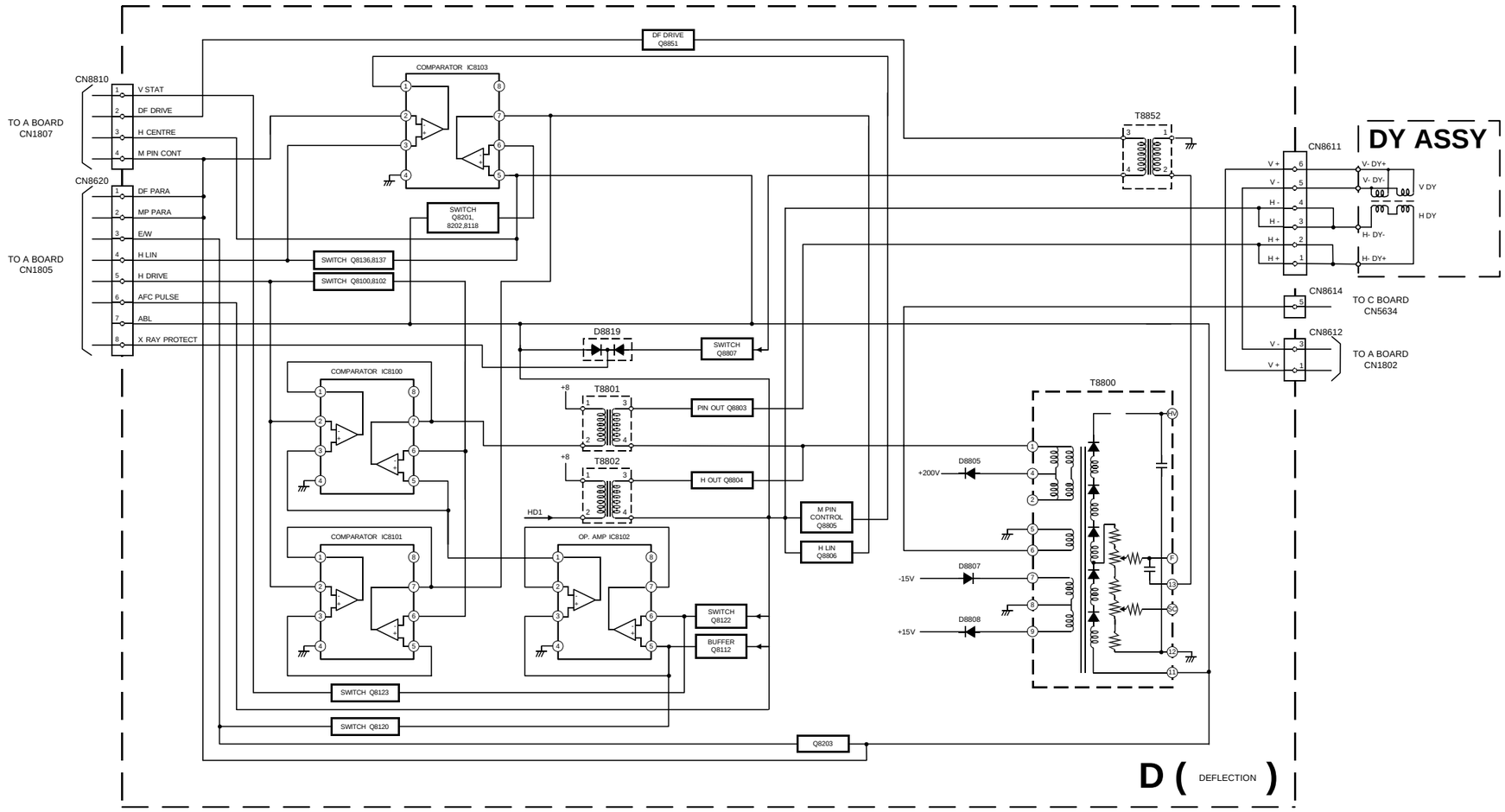

CN5400
+12V
POWER ON SWITCH Q5350
IC5300
VIDEO OUT (RED)
STANBY SW Q5300
IC5325
VIDEO OUT (GREEN)
STANBY SW Q5325
IC5350
VIDEO OUT (BLUE)
STANBY SW Q5351
VB
VI
VDF
VO
IK
R
G
B
VOLTAGE DET Q5375, 5376
FV
TO D BOARD FV (T6804)
J5375
G4
H1
PICTURE TUBE
HV
TO D BOARD HV (T6804)
CN5634
TO D BOARD CN8614
C (CRT DRIVE)

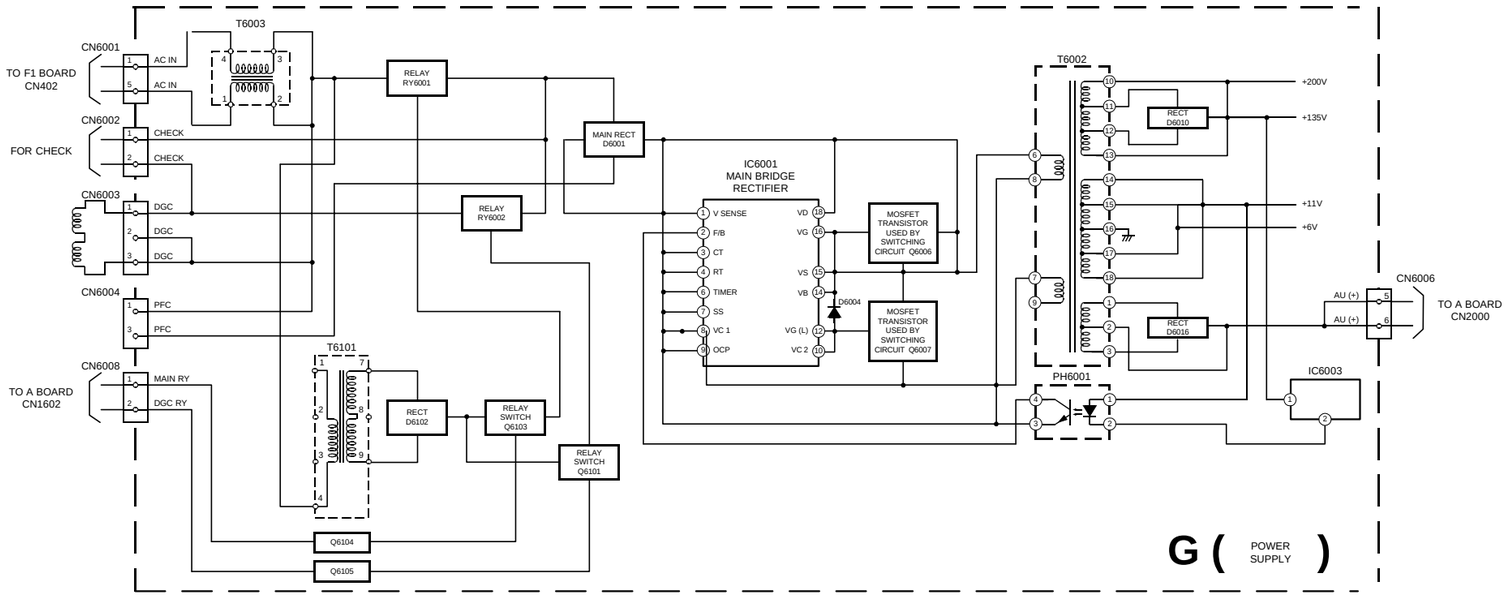

VM (VELOCITY MODULATION)
CN5602
TO A BOARD CN1803
VM IN
Q.P -
Q.P +
VM AMP Q5400,5401
VM BUFFER Q5402,5403, 5404,5405
VM OUT Q5406,5407
CN5444
QP-
QP+
VM
NECK ASSY

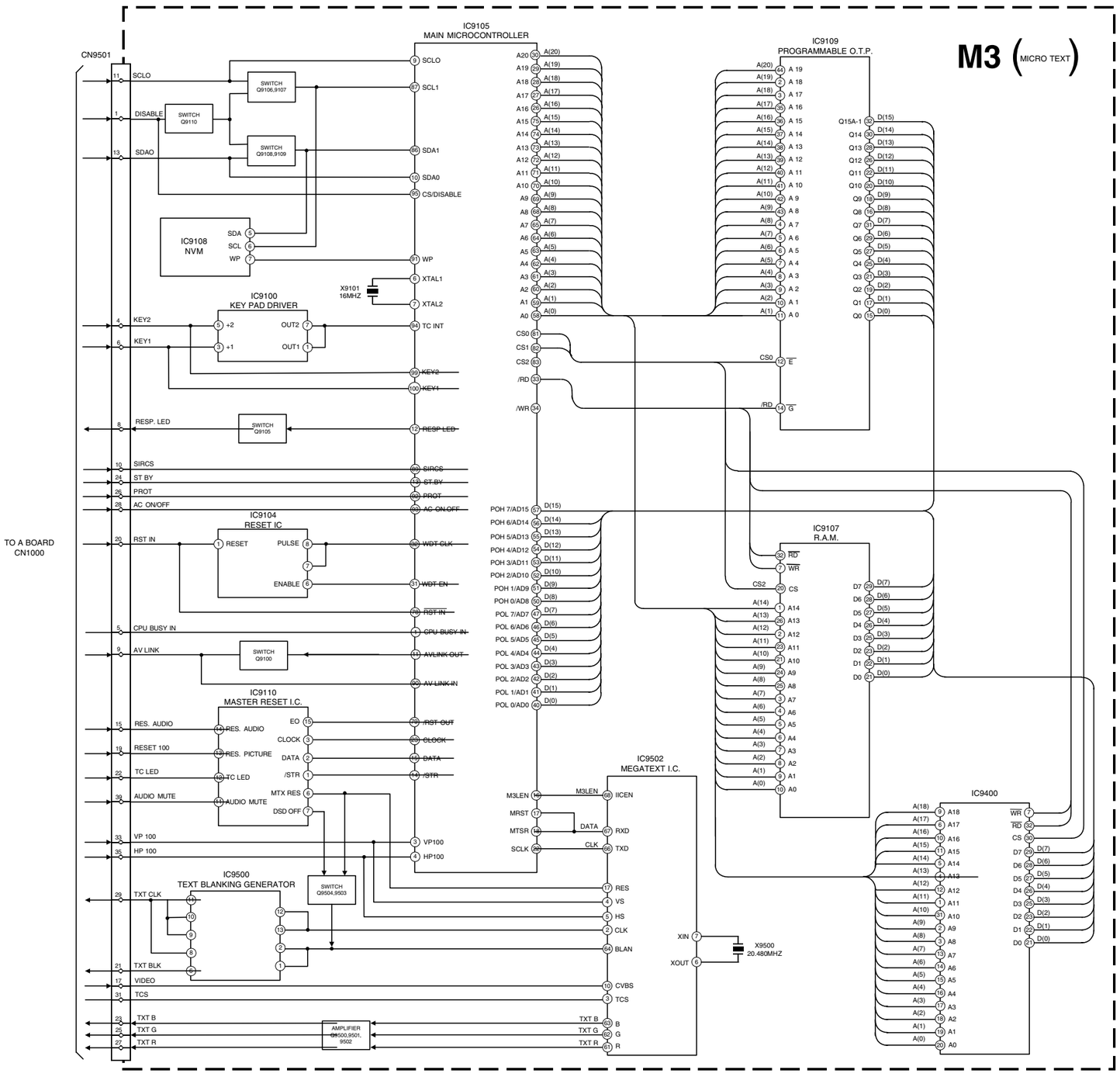
5-1. BLOCK DIAGRAMS (4)

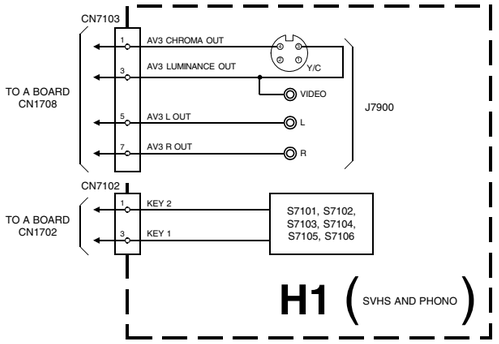


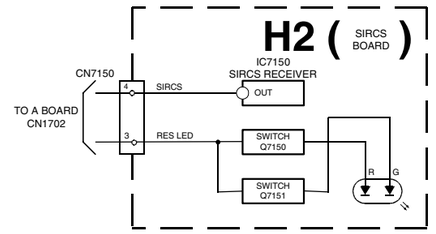
5-1. BLOCK DIAGRAMS (5)

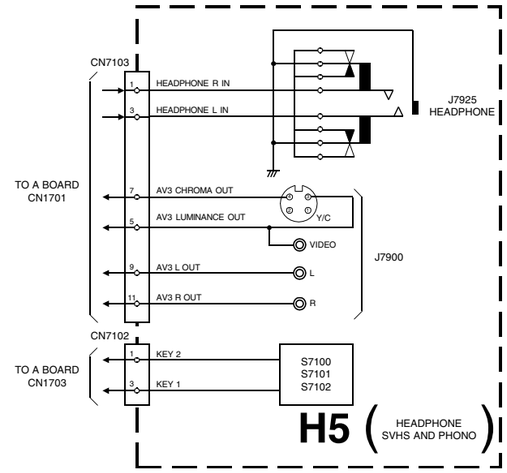




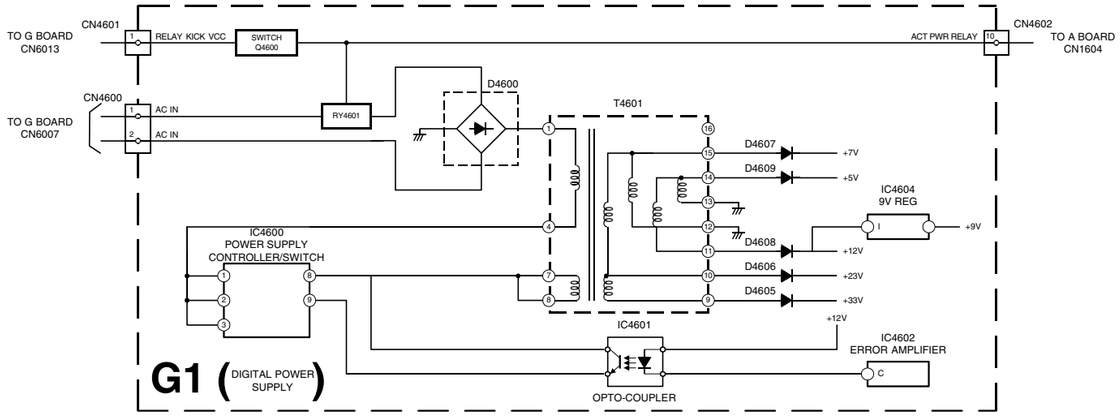

M3 (MICRO TEXT)
IC9105
MAIN MICROCONTROLLER
CN9501
SCLO
DISABLE
SDAO
SWITCH Q9106,9107
SWITCH Q9110
SWITCH Q9108,9109
IC9108
NVM
SDA
SCL
WP
X9101
16MHZ
IC9100
KEY PAD DRIVER
KEY2
KEY1
RESP. LED
SWITCH Q9105
SIRCS
ST BY
PROT
AC ON/OFF
IC9104
RESET IC
RST IN
PULSE
ENABLE
CPU BUSY IN
AV LINK
SWITCH Q9100
IC9110
MASTER RESET I.C.
RES. AUDIO
RESET 100
TC LED
AUDIO MUTE
MTX RES
DSD OFF
VP 100
HP 100
IC9500
TEXT BLANKING GENERATOR
SWITCH Q9504,9503
TXT CLK
TXT BLK
VIDEO
TCS
TXT B
TXT G
TXT R
AMPLIFIER Q9500,9501, 9502
SCLO
SCL1
SDA1
SDA0
CS/DISABLE
WP
XTAL1
XTAL2
TC INT
KEY2
KEY1
RESP. LED
SIRCS
ST.BY
PROT
AC ON/OFF
WDT CLK
WDT EN
RST IN
CPU BUSY IN
AVLINK OUT
AV LINK IN
/RST OUT
CLOCK
DATA
/STR
VP100
HP100
IC9109
PROGRAMMABLE O.T.P.
IC9107
R.A.M.
IC9400
IC9502
MEGATEXT I.C.
M3LEN
MRST
MTSR
SCLK
IICEN
RXD
TXD
RES
VS
HS
CLK
BLAN
CVBS
TCS
B
G
R
X9500
20.480MHZ
XIN
XOUT
TO A BOARD CN1000

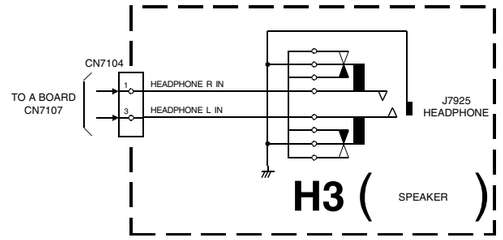

CN7103
AV3 CHROMA OUT
AV3 LUMINANCE OUT
AV3 L OUT
AV3 R OUT
Y/C
VIDEO
L
R
J7900
TO A BOARD CN1708
CN7102
KEY 2
KEY 1
S7101, S7102, S7103, S7104, S7105, S7106
TO A BOARD CN1702
H1 (SVHS AND PHONO)

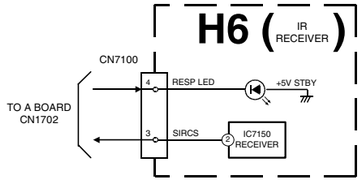

H2 (SIRCS BOARD)
IC7150
SIRCS RECEIVER
CN7150
SIRCS
OUT
RES LED
SWITCH Q7150
SWITCH Q7151
R
G
TO A BOARD CN1702

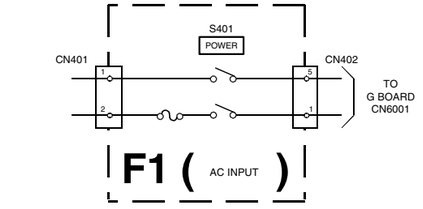

CN7103
HEADPHONE R IN
HEADPHONE L IN
J7925
HEADPHONE
AV3 CHROMA OUT
AV3 LUMINANCE OUT
AV3 L OUT
AV3 R OUT
V/C
VIDEO
L
R
J7900
TO A BOARD CN1701
CN7102
KEY 2
KEY 1
S7100
S7101
S7102
TO A BOARD CN1703
H5 (HEADPHONE SVHS AND PHONO)

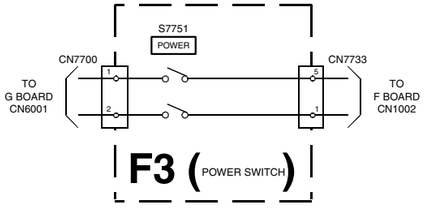
5-1. BLOCK DIAGRAMS (7)

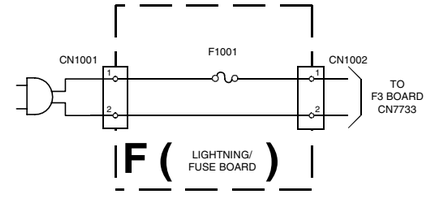


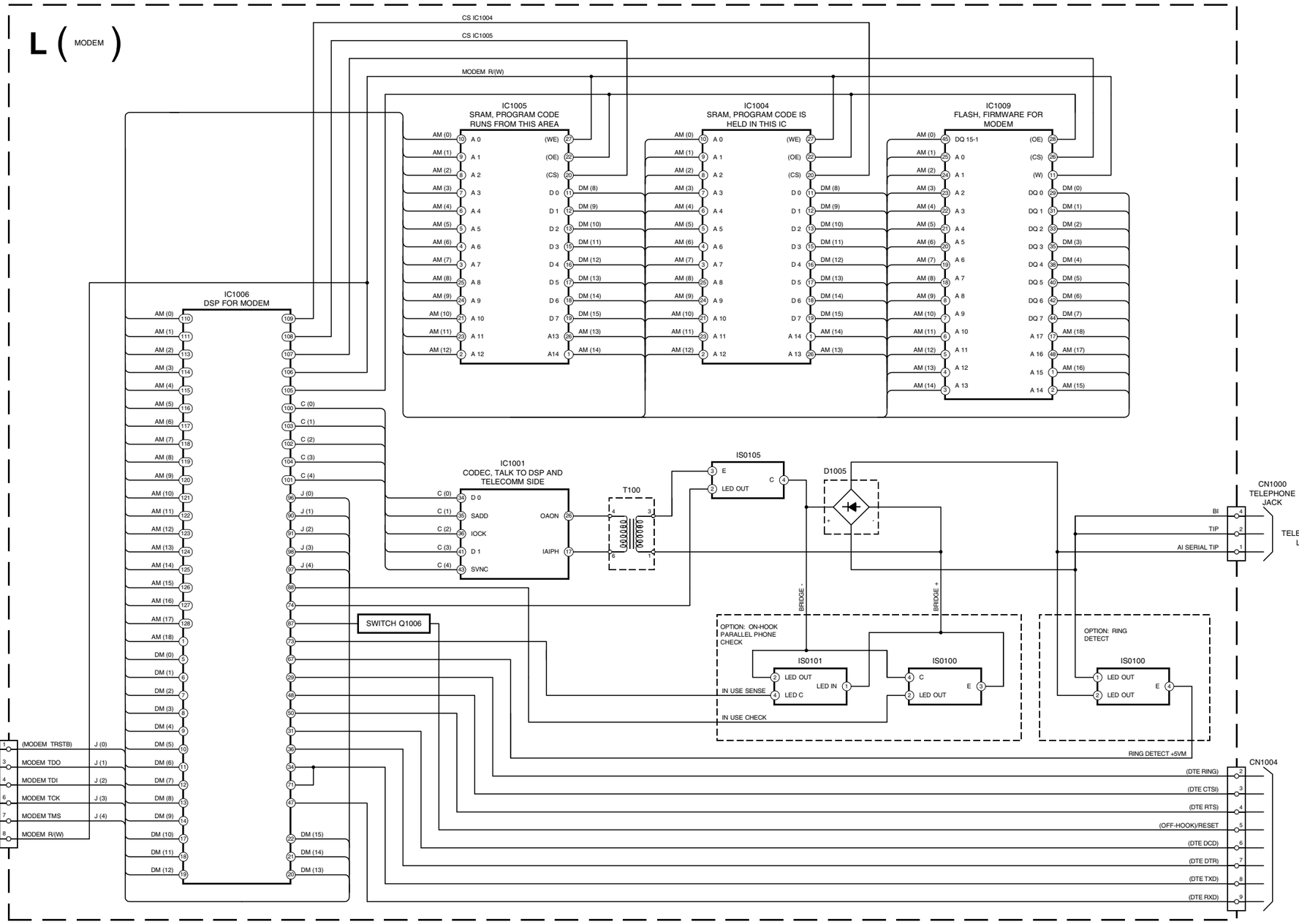




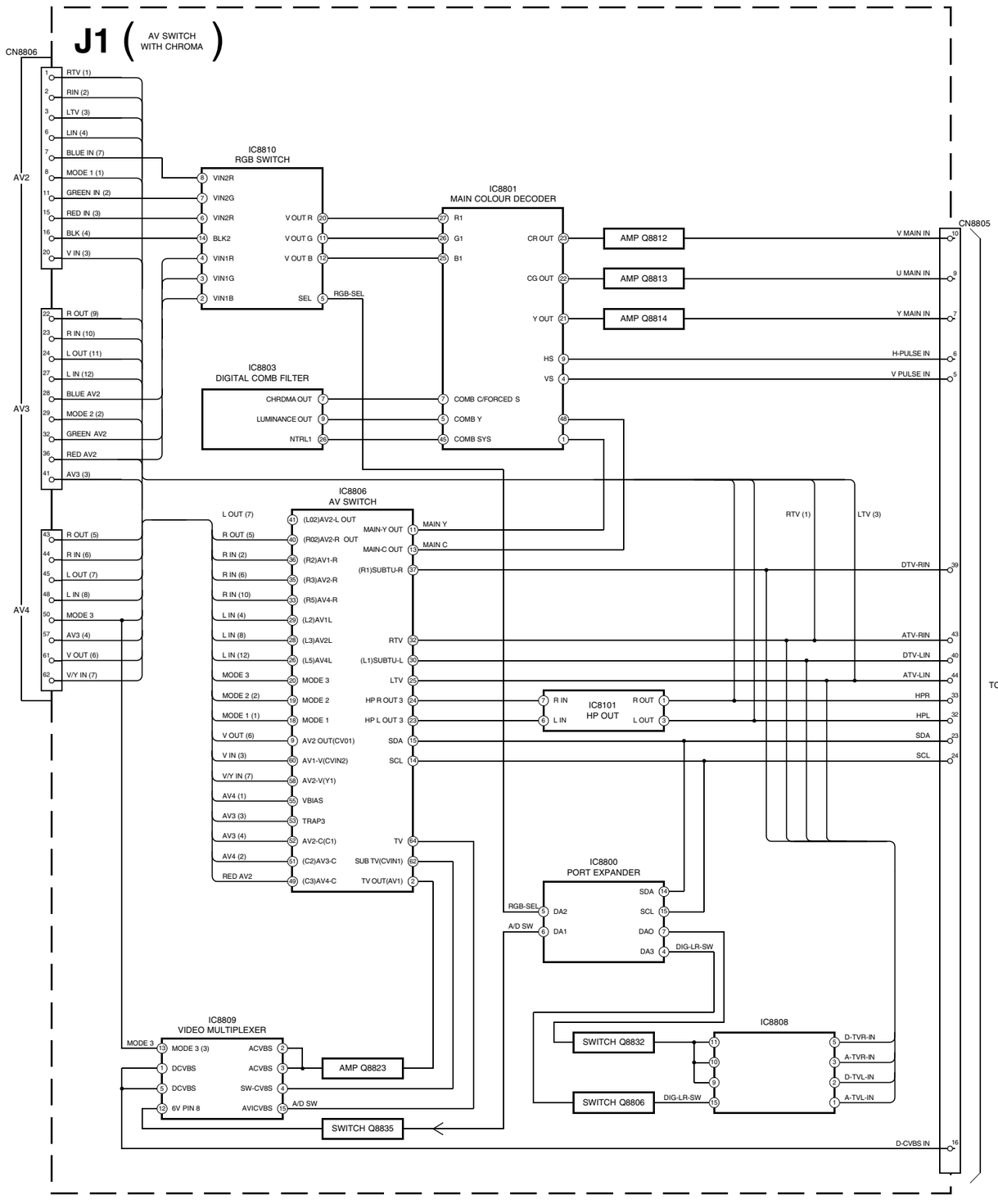






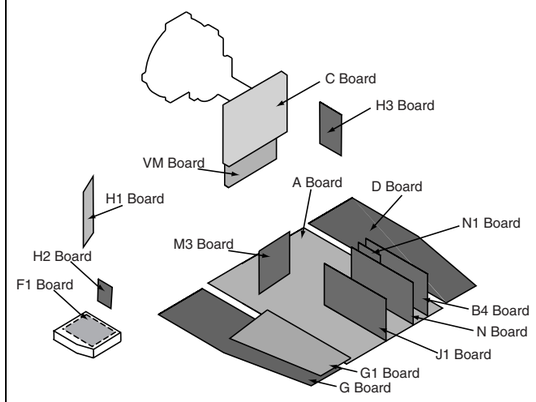


5-1. BLOCK DIAGRAMS (8)

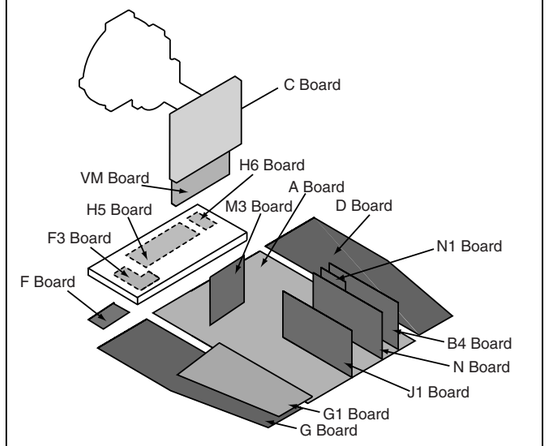


5-2. CIRCUIT BOARD LOCATION

KV-32NX100U/KV-32NS100B



KV-32DX100U



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in µF unless otherwise noted.
- pF : µµF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm Electrical power rating : 1/4W

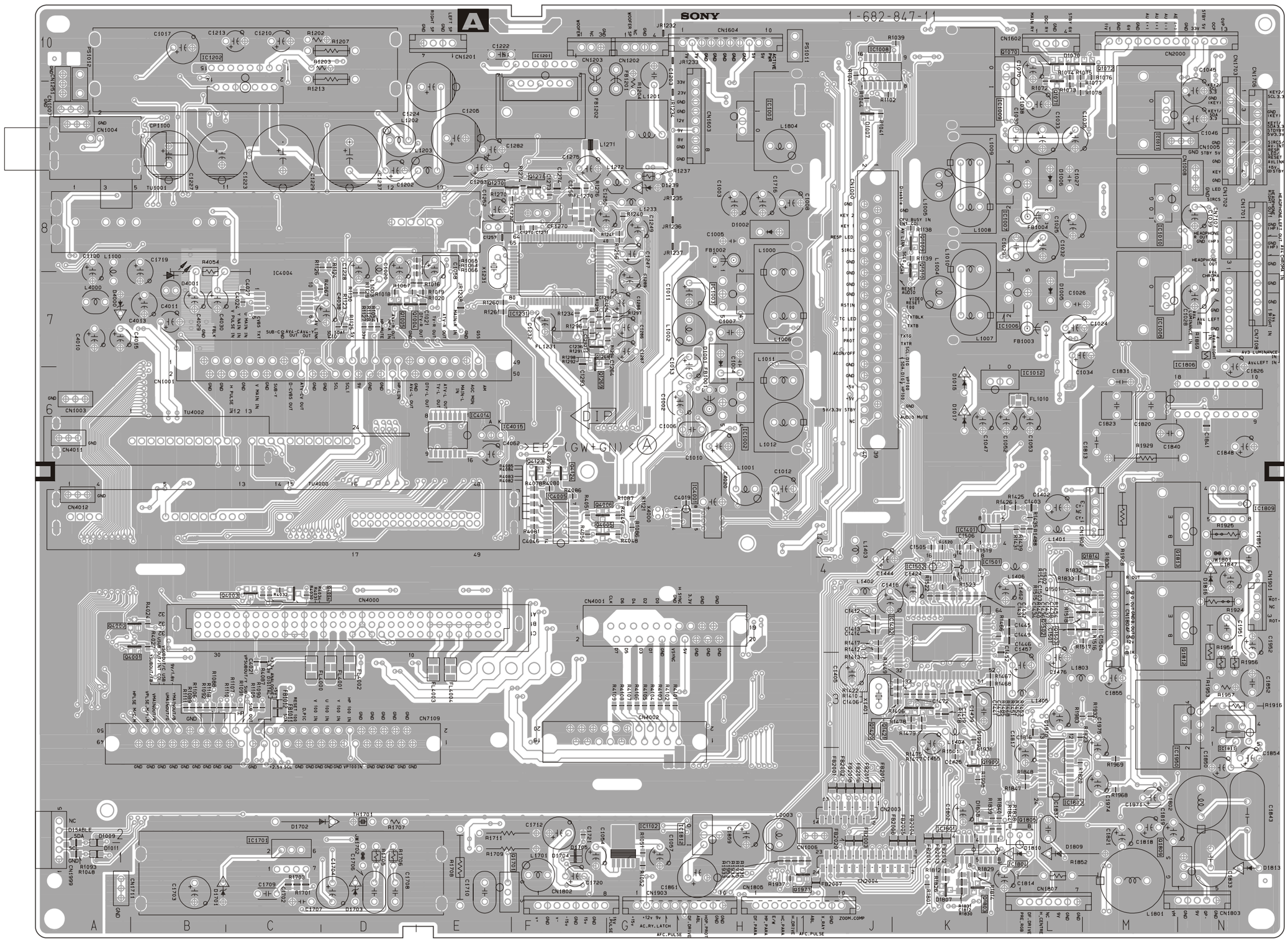
- Chip resistors are 1/10W
- All resistors are in ohms.
  k = 1000 ohms, M = 1000,000 ohms
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.
- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

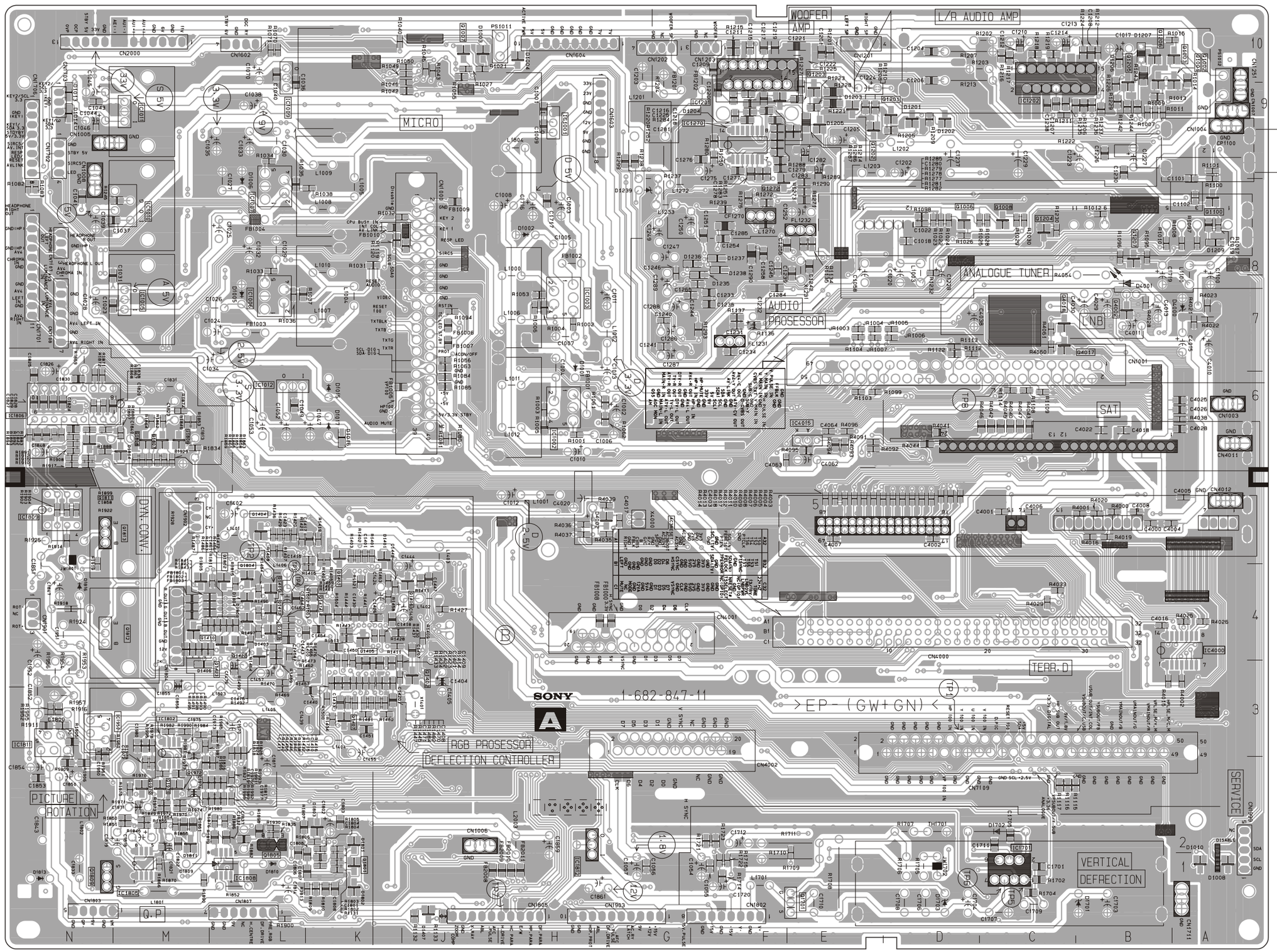
RESISTOR	**RN**	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	**LF-8L**	: MICRO INDUCTOR
CAPACITOR	**TA**	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

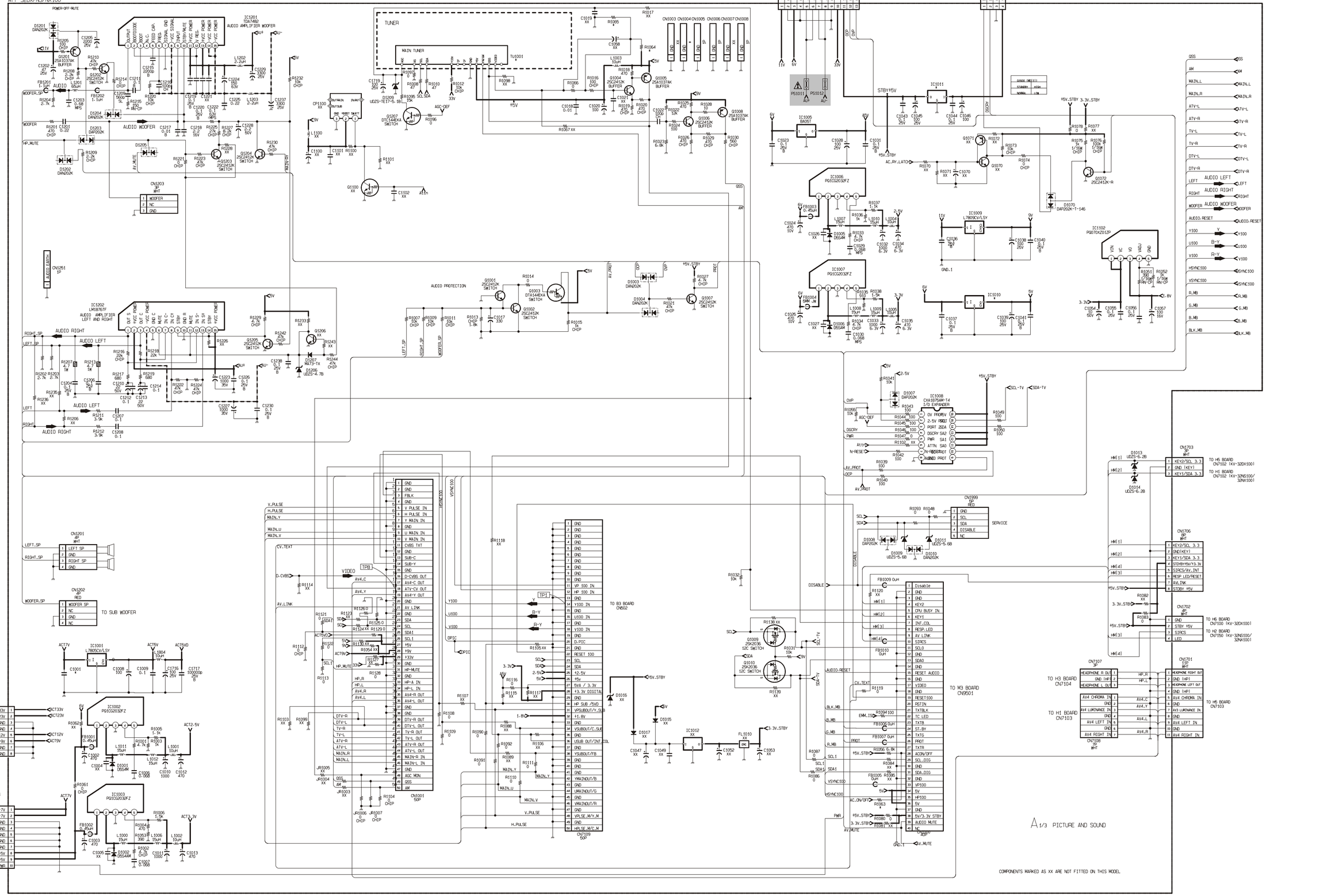
Note : Les composants identifiés par une trame e par une marque ⚠ sont dune importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.



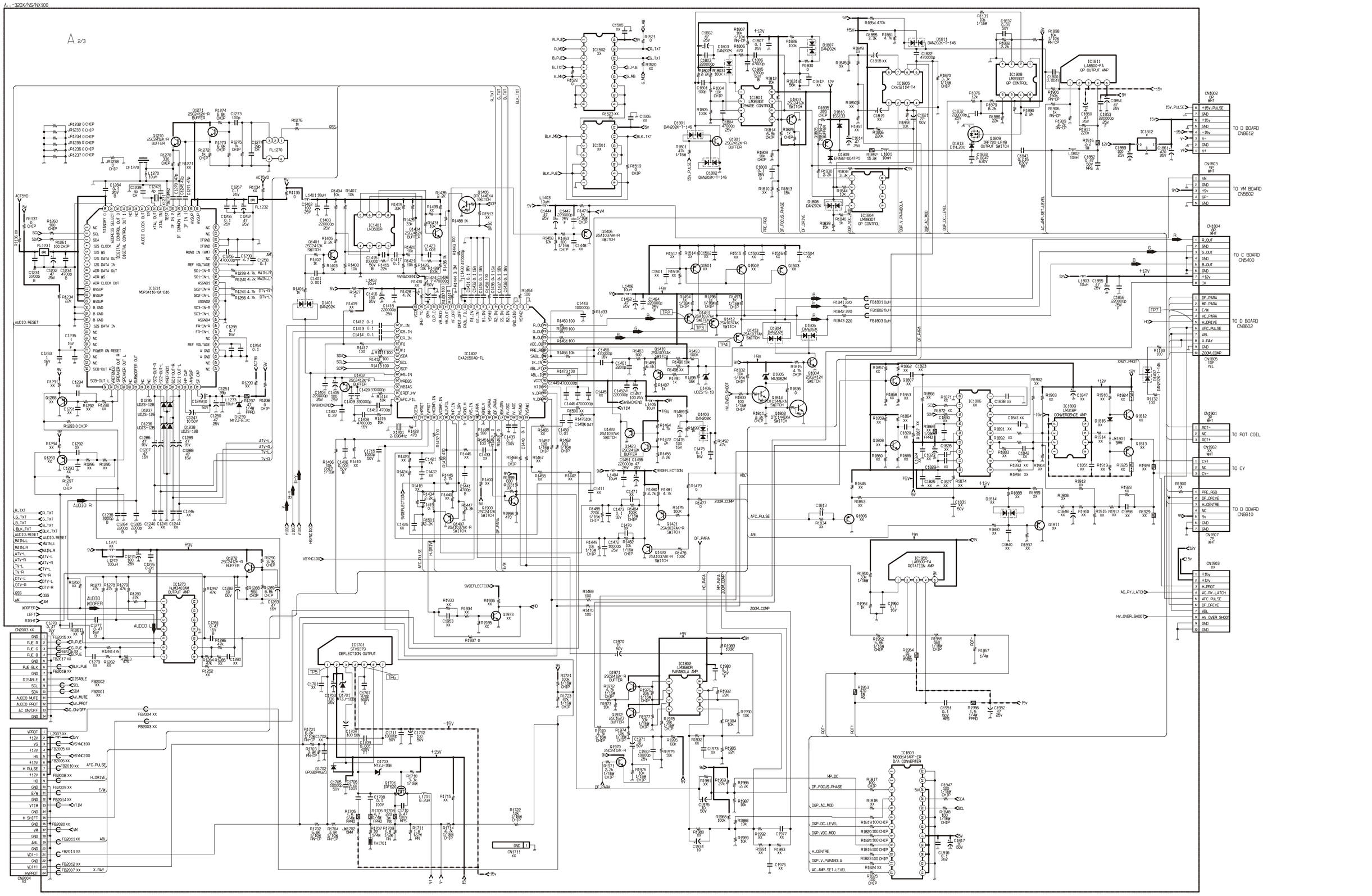
~ A Printed Wiring Board Conductor side A ~

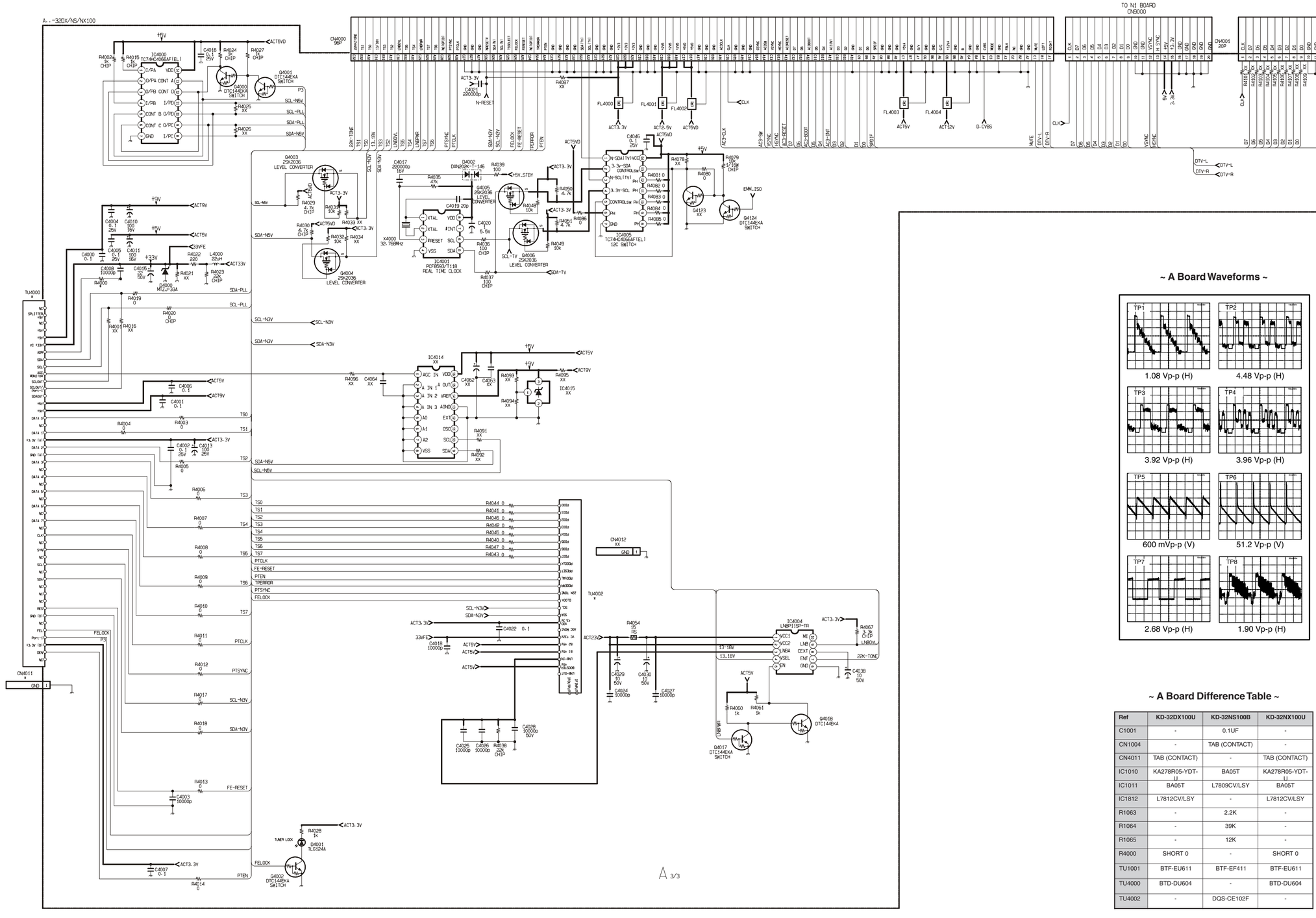


~ A Printed Wiring Board Conductor side B ~


POWER-OFF-MUTE
AUDIO AMPLIFIER WOOFER
IC1201 TDA7482
AUDIO WOOFER
AUDIO AMPLIFIER LEFT AND RIGHT
IC1202 LM1875T
AUDIO PROTECTION
TUNER
MAIN TUNER
TU1001
TO G BOARD CN6006
TO G BOARD CN6013
CN2000 3P WHT
CN1602 4P WHT
PS1011
PS1012
STBY+5V
IC1011
IC1005 BA05T
IC1006 P01CG0330FZ
IC1007 P01CG0230FZ
IC1009 L7805CV/LSY
IC1010
IC1102 PQ070XZ01ZP
IC1008 CXA1675AM-T4 I/O EXPANDER
AUDIO RIGHT
AUDIO LEFT
AUDIO WOOFER
AUDIO-RESET
AUDIO RIGHT
AUDIO LEFT
CN1251 1P
CN1201 4P WHT
CN1202 4P RED
CN1203 3P WHT
CN1001 50P
CN7109 50P
CN1703 5P WHT
CN1706 8P WHT
CN1702 4P WHT
CN1701 11P WHT
CN7107 3P
CN7108 5P WHT
CN1999 5P RED
CN1503 6P WHT
CN1504 10P WHT
TO G1 BOARD CN4503
TO G1 BOARD CN4602
TO SUB WOOFER
TO B3 BOARD CN502
TO M3 BOARD CN9501
TO H5 BOARD CN7102 (KV-32DX1001
TO H1 BOARD CN7102 (KV-32NS100/ 32NX1001
TO H3 BOARD CN7104
TO H1 BOARD CN7103
TO H5 BOARD CN7102 (KV-32DX1001
TO H5 BOARD CN7100 (KV-32DX1001
TO H3 BOARD CN7150 (KV-32NS100/ 32NX1001
TO H5 BOARD CN7103
SERVICE
1/3 PICTURE AND SOUND
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

A 2/3

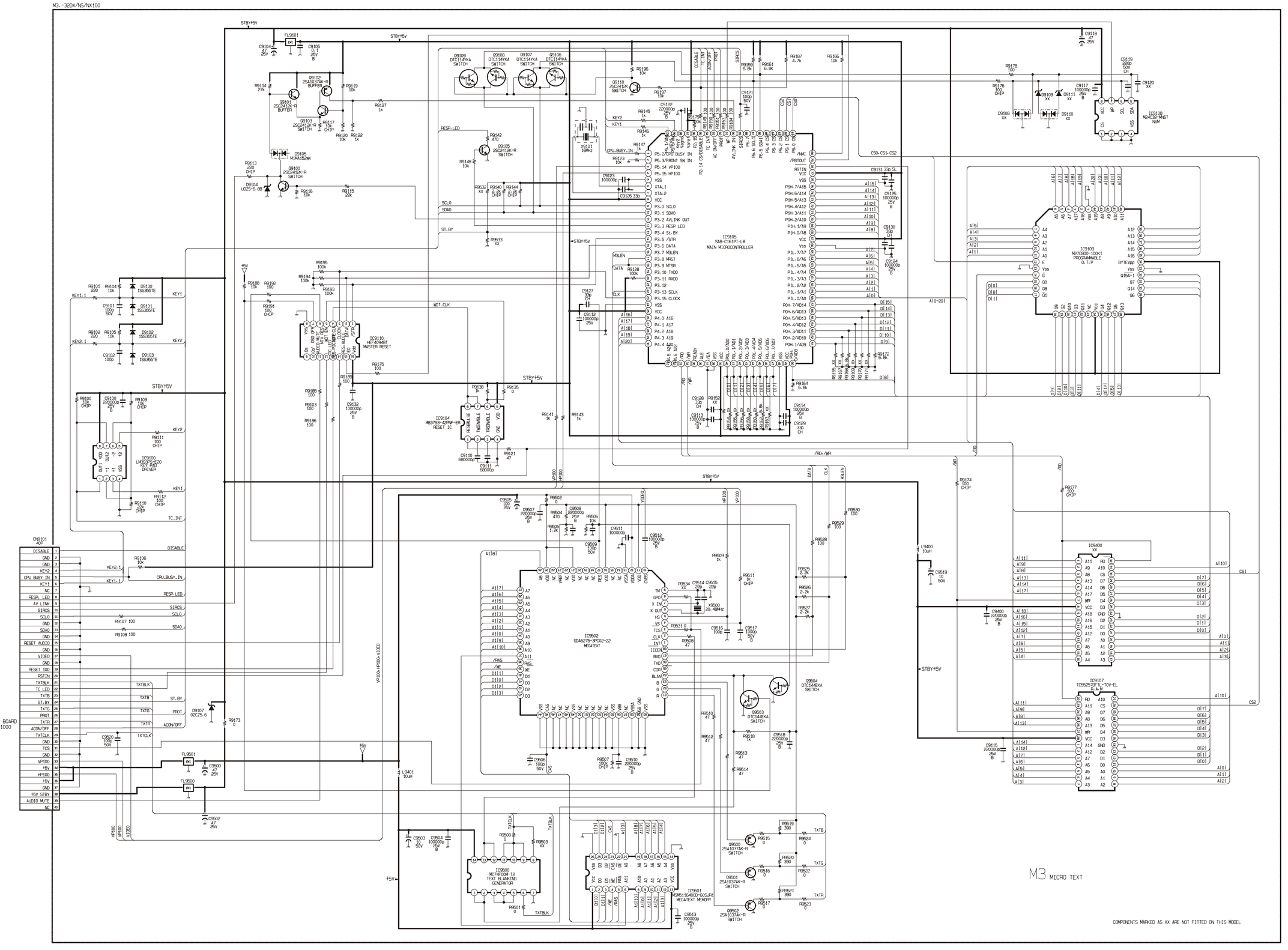

TO D BOARD CN8612
TO VM BOARD CN5602
TO C BOARD CN5400
TO D BOARD CN8602
TO ROT COIL
TO CY
TO D BOARD CN8810
IC1231 MSP3411G-QA-B10
IC1402 CXA2150AQ-TL
IC1401 LM386ER
IC1501
IC1502
IC1811 LA6500-FA GP OUTPUT AMP
IC1908 LM393DT GP CONTROL
IC1801 LM393DT PHASE CONTROL
IC1805 CXA1219M-T4
IC1804 LM393DT GP CONTROL
IC1809 LM318P CONVERGENCE AMP
IC1950 LA6500-FA ROTATION AMP
IC1803 M38814E4AF-ER D/A CONVERTER
IC1701 STV9379 DEFLECTION OUTPUT
IC1902 LM356ER PARABOLA AMP
IC1270 NJM4403AM OUTPUT AMP
AUDIO R
AUDIO L
AUDIO WOOFER
AUDIO.RESET
POWER ON RESET
SCART-OUT
SPEAKER OUT
SUBWOOFER OUT
ATV-L
ATV-R
TV-L
TV-R
DTV-L
DTV-R
VM
VIM
ABL
H.SHIFT
H_DRIVE
E/W
AFC_PULSE
HV_OVER_SHOOT
XRAY_PROT
ROT+
ROT-
DF_PARA
MP_DC
DF_FOCUS_PHASE
DGP_AC_MOD
DGP_DC_LEVEL
DGP_VDC_MOD
H_CENTRE
DGP_V_PARABOLA
AC_AMP_SET_LEVEL
ZOOM_COMP
AFC_PULSE
ABL
DF_PARA
HC_PARA
MP_PARA
ZOOM_COMP
AC_RY_LATCH
HV_OVER_SHOOT



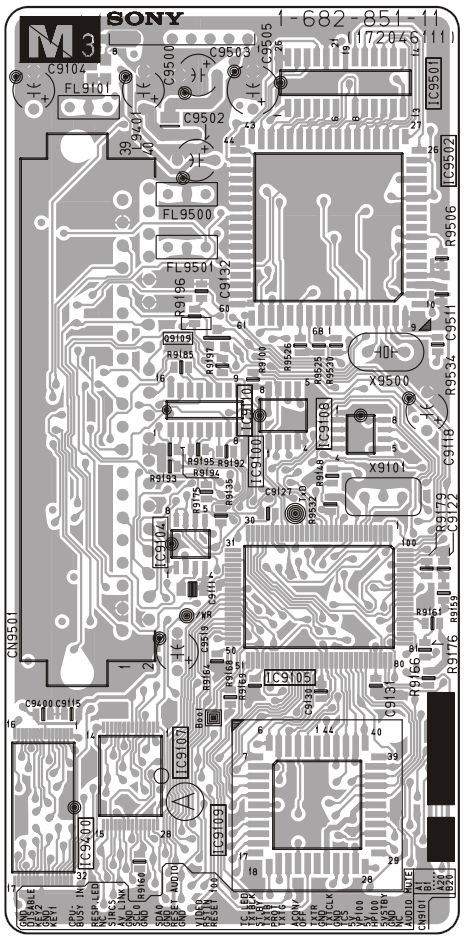
~ A Board Waveforms ~

~ A Board Difference Table ~

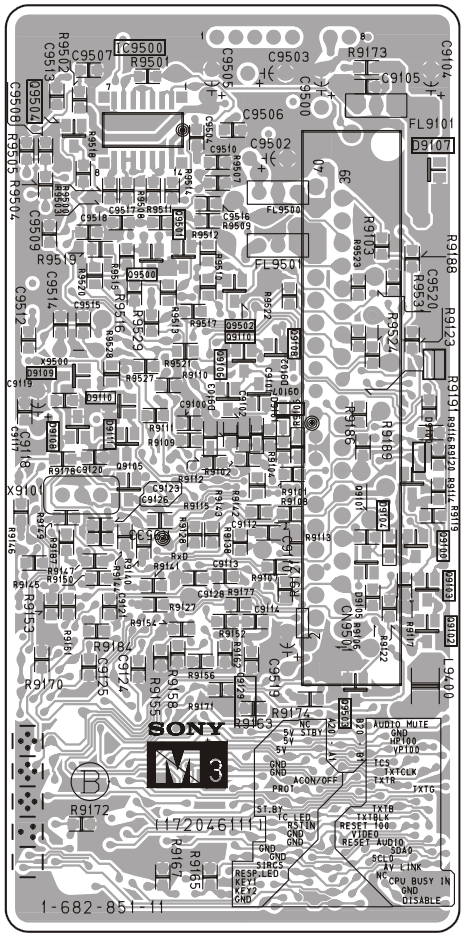
Ref	KD-32DX100U	KD-32NS100B	KD-32NX100U
C1001	-	0.1UF	-
CN1004	-	TAB (CONTACT)	-
CN4011	TAB (CONTACT)	-	TAB (CONTACT)
IC1010	KA278R05-YDT-U	BA05T	KA278R05-YDT-U
IC1011	BA05T	L7809CV/LSY	BA05T
IC1812	L7812CV/LSY	-	L7812CV/LSY
R1063	-	2.2K	-
R1064	-	39K	-
R1065	-	12K	-
R4000	SHORT 0	-	SHORT 0
TU1001	BTF-EU611	BTF-EF411	BTF-EU611
TU4000	BTD-DU604	-	BTD-DU604
TU4002	-	DQS-CE102F	-


IC9105
SAB-C161PI-LM
MAIN MICROCONTROLLER
IC9502
SDA5275-3FC02-22
MEGATEXT
IC9109
M27C800-100K1
PROGRAMMABLE
O.T.P
IC9108
M24C32-WNGT
NVM
IC9400
XX
IC9107
TC55626DFTL-70V-EL
IC9110
HEF4094BT
MASTER RESET
IC9104
MB3793-42PNF-ER
RESET IC
IC9100
LM8389PC-E20
KEY PAD
DRIVER
IC9500
MC74F00M-T2
TEXT BLANKING
GENERATOR
IC9501
M5M5116400D-60SJ#1
MEGATEXT MEMORY
CN9101
40P
TO A BOARD
CN1000
M3 MICRO TEXT
COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

~ M3 Printed Wiring Board Conductor side A ~



~ M3 Printed Wiring Board Conductor side B ~



~ A Board Location Table (A Side) ~

DIODE																			
D1001	H - 5	D1070	L - 1	D1810	L - 10	IC1005	M - 4	IC1231	F - 4	IC1811	N - 8	Q1005	E - 4	Q1803	K - 10	Q4004	D - 7
D1002	I - 3	D1239	H - 3	D1813	N - 10	IC1006	L - 4	IC1401	K - 7	IC1950	M - 8	Q1009	K - 3	Q1805	L - 9	Q4005	G - 6
D1005	L - 4	D1701	C - 10	D4000	B - 4	IC1007	K - 3	IC1402	J - 7	IC4001	H - 6	Q1010	K - 4	Q1809	M - 10	Q4006	G - 6
D1006	L - 3	D1702	D - 9	D4001	C - 4	IC1008	J - 2	IC1701	D - 10	IC4004	D - 4	Q1072	L - 2	Q1814	L - 7	Q4124	G - 6
D1007	J - 2	D1703	D - 10	IC		IC1009	K - 2	IC1801	K - 9	IC4005	G - 6	Q1270	F - 3	Q1900	K - 9		
D1009	B - 9	D1807	K - 10	IC1001	I - 2	IC1102	H - 9	IC1803	L - 9	TRANSISTOR		Q1271	F - 3	Q4000	C - 7		
D1011	B - 10	D1808	K - 9	IC1002	I - 5	IC1201	F - 2	IC1804	L - 10	Q1004	E - 4	Q1420	J - 8	Q4001	C - 7		
		D1809	L - 10	IC1003	H - 4	IC1202	C - 2	IC1809	N - 6	Q1005	E - 4	Q1421	J - 8	Q4003	C - 7		

~ A Board Location Table (B Side) ~

DIODE						IC									
D1001	G - 5	D1204	I - 2	D1702	L - 9	IC1001	G - 2	IC1809	B - 6	Q1205	M - 1	Q1701	J - 10		
D1002	G - 3	D1205	J - 2	D1703	K - 10	IC1002	G - 5	IC1811	B - 8	Q1207	M - 3	Q1801	E - 10		
D1003	F - 1	D1206	M - 1	D1801	E - 9	IC1003	G - 4	IC1950	B - 8	Q1272	I - 3	Q1802	C - 7		
D1004	G - 1	D1207	M - 1	D1802	E - 10	IC1005	C - 4	IC4000	N - 7	Q1401	E - 6	Q1804	D - 7		
D1005	D - 4	D1209	N - 3	D1803	E - 9	IC1006	D - 4	TRANSISTOR		Q1402	F - 8	Q1805	D - 9		
D1006	D - 3	D1235	H - 4	D1804	D - 7	IC1007	D - 3	Q1001	N - 1	Q1404	D - 6	Q1809	B - 10		
D1006	B - 10	D1236	H - 4	D1805	C - 7	IC1009	D - 2	Q1002	N - 1	Q1405	E - 7	Q1970	C - 9		
D1008	N - 10	D1237	I - 4	D1806	D - 7	IC1201	I - 2	Q1003	M - 1	Q1406	F - 7	Q1971	C - 9		
D1010	N - 9	D1238	I - 4	D1809	C - 10	IC1202	L - 2	Q1006	K - 3	Q1407	E - 8	Q1972	C - 9		
D1013	B - 1	D1239	H - 3	D1810	D - 10	IC1270	I - 2	Q1007	F - 1	Q1410	C - 7	Q4002	M - 4		
D1014	B - 2	D1401	E - 6	D1811	C - 10	IC1701	L - 10	Q1008	L - 3	Q1411	D - 7	Q4017	M - 4		
D1201	K - 2	D1403	D - 7	D1813	B - 10	IC1802	C - 8	Q1201	J - 2	Q1412	D - 7	Q4018	L - 4		
D1202	K - 2	D1406	C - 8	D4000	N - 4	IC1805	C - 10	Q1202	J - 2	Q1413	D - 7				
D1203	J - 2	D1407	E - 10	D4001	M - 4	IC1808	D - 10	Q1203	J - 2	Q1422	D - 7				
		D1701	M - 10	D4002	H - 6			Q1204	L - 3	Q1423	C - 8				

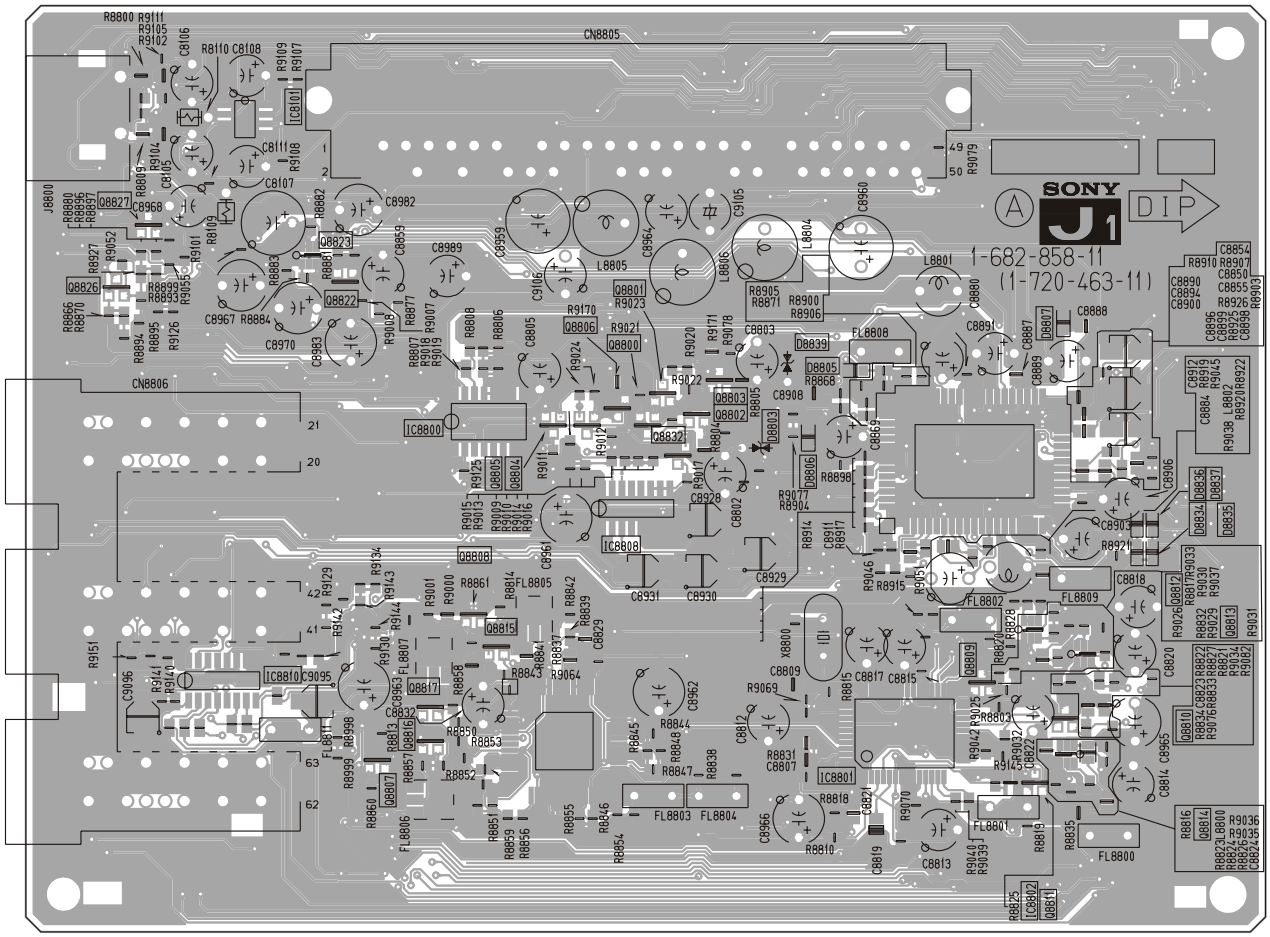
~ A Board Semiconductor Voltage Table ~

Ref	(s)	(g)	(d)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q4003	2.7	3.3	4	Q1006	5	4.7	1	Q1205	5	4.4	3.4	Q1407	1.9	1.2	0	Q1801	0	7.9	0	Q4000	6	6.6	10.9
Q4004	2.7	3.3	4	Q1007	4.2	4.8	8.3	Q1207	0.7	1.3	5	Q1410	0	0.4	2.2	Q1802	0	0	0	Q4001	2.7	2	0
Q4005	2.7	3.3	4	Q1008	3.3	3.9	8.3	Q1270	1.3	1.9	5	Q1411	8	7.3	0	Q1803	0	0	12	Q4002	11.6	10.9	8.6
Q4006	2.7	3.3	4	Q1009	3.3	3.9	8.3	Q1271	1.9	2.5	5	Q1412	8	7.4	0	Q1804	4.3	0	5	Q4017	2.7	2.7	8.9
Ref	**(e)**	**(b)**	**(c)**	Q1010	0	0	15.2	Q1272	3.3	2.7	3.9	Q1413	8	7.3	0	Q1805	12	11.3	9.8	Q4018	2.7	2.7	8.9
Q1001	3.2	0	0.5	Q1072	0	0.7	0	Q1401	0	0.7	1.2	Q1420	7.2	6.4	0	Q1814	2.5	1.9	0				
Q1002	0	1.3	0.5	Q1201	0.6	0.6	0.5	Q1402	7.6	8.3	9	Q1421	7.2	6.5	0	Q1900	0.5	1.1	7.7				
Q1003	5	0.5	3.6	Q1202	1.9	2.5	4.4	Q1404	2.8	3.4	7.9	Q1422	5.6	5	0	Q1970	6	6.6	9				
Q1004	1.9	1.3	0	Q1203	1.9	2.5	4.4	Q1405	0	0.7	1.5	Q1423	3.9	4.5	9	Q1971	0.7	1.4	9				
Q1005	0	0.5	5	Q1204	5	4.4	3.4	Q1406	0.2	0.8	11.7	Q1701	0	0	0.5	Q1972	0.7	1.4	9				

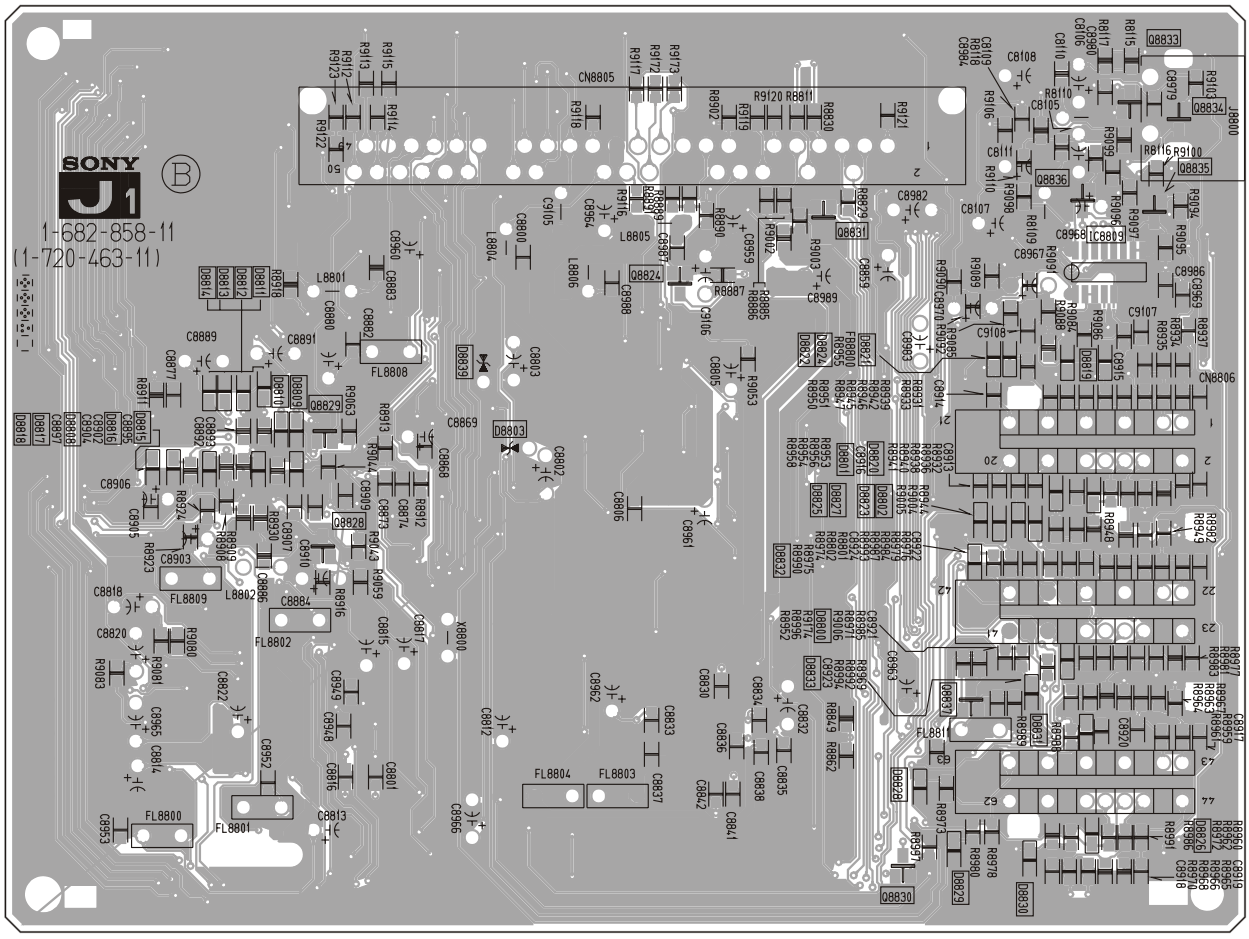
~ A Board IC Voltage Table ~

IC Voltage Table													
Ref No	**Pin No**	**Voltage (V)**	Ref No	**Pin No**	**Voltage (V)**	Ref No	**Pin No**	**Voltage (V)**	Ref No	**Pin No**	**Voltage (V)**	Ref No	**Pin No**	**Voltage (V)**
IC1002	1	-6.7	IC1201	1	0	IC1202	6	0	IC1402	11	1.8	IC1231	1	8.9
	2	-2.7		2	14.8		7	0		12	0.4		2	0
	3	0		3	0		8	0		13	0.9		3	4.7
	4	-1.3		4	0		9	0		14	5		4	4.7
	5	-6.1		5	0		10	0		15	2.5		5	4.7
IC1003	1	-6.7		6	15		11	0		16	0		6	8.9
	2	-3.4		7	0		12	0		17	3		7	0
	3	0		8	15		13	0		18	2.7		8	4.8
	4	-1.3		9	0		14	0		19	7.6		9	4.8
	5	-6.2		10	7.8		15	-15		20	0		10	4.8
IC1006	1	-6.8		11	-15	IC1402	1	1.7		21	0		11	0
	2	-2.7		12	14.8		2	8.5		22	0.4		12	0
	3	0		13	-15		3	6.5		23	1.8		13	0
	4	-1.3		14	15		4	0		24	0.4		14	6.3
	5	-6.2		15	15		5	6.5		25	0.9		15	8.9
IC1007	1	-6.8	IC1202	1	0		6	7.1		26	5		16	8.9
	2	-3.4		2	-15		7	0.4		27	2.5		17	6
	3	0		3	0		8	12		28	0		18	2.5
	4	-1.3		4	NC		9	0		29	3		19	4.1
	5	-6.2		5	0		10	0.4		30	2.7		20	0

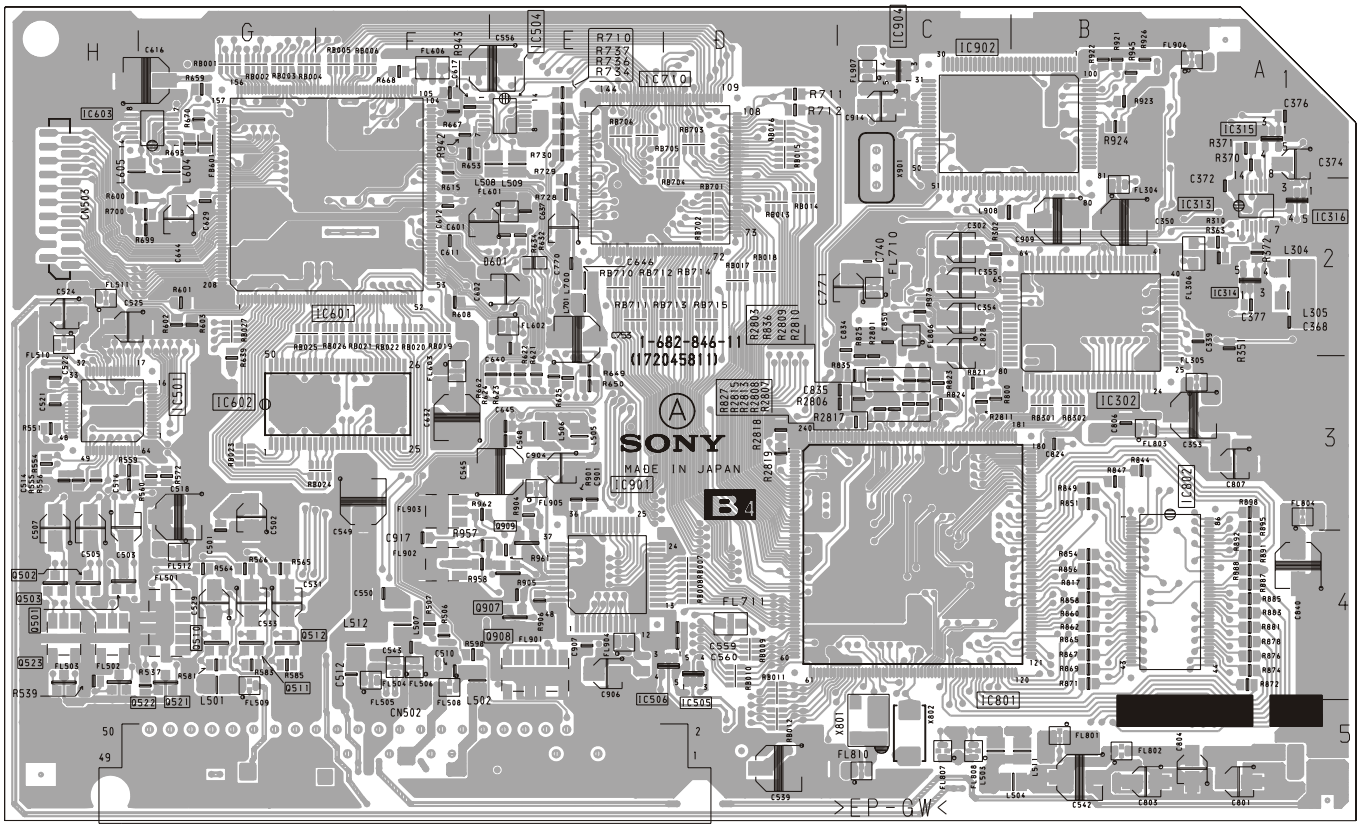
~ J1 Printed Wiring Board Conductor side A ~



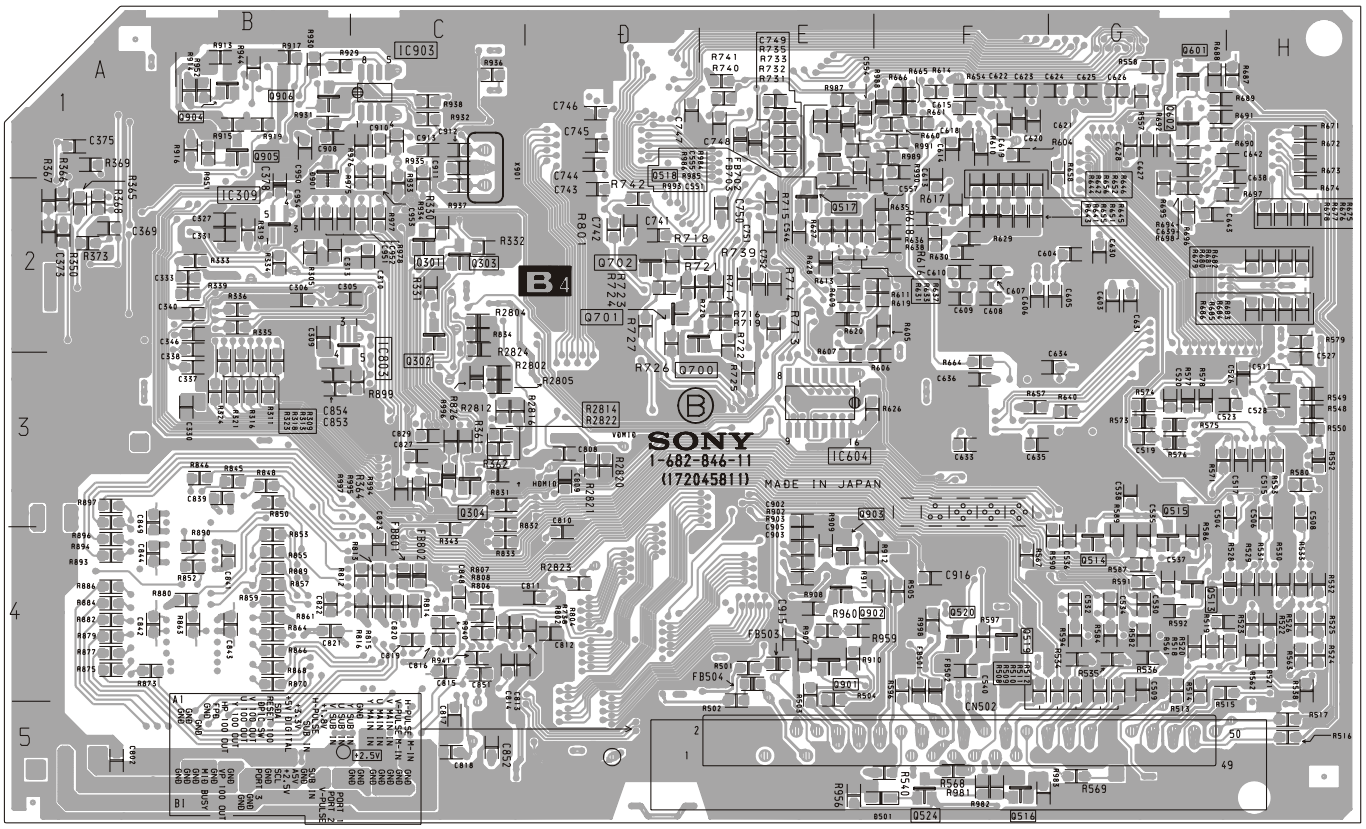
~ J1 Printed Wiring Board Conductor side B ~

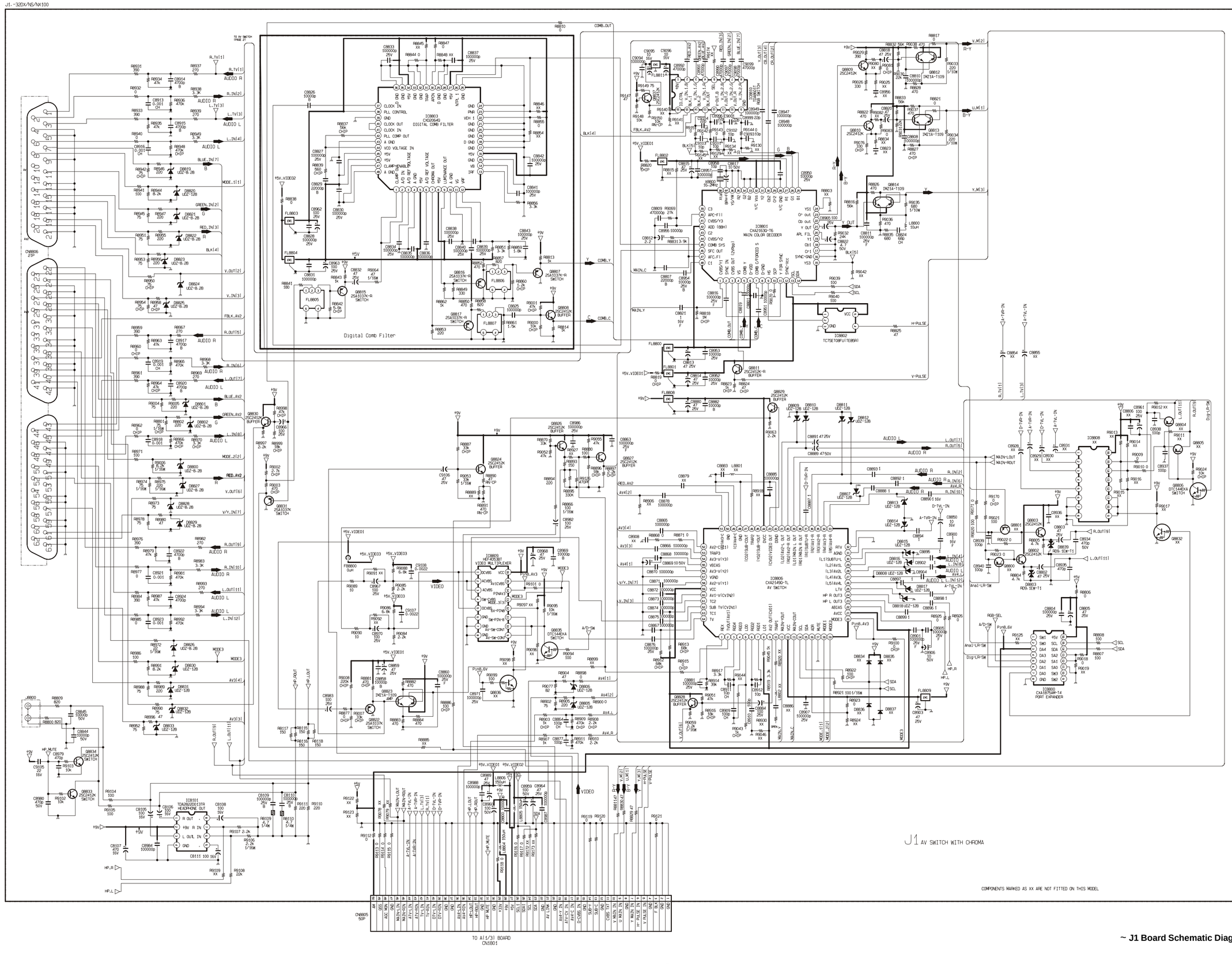


~ B4 Printed Wiring Board Conductor side A ~



~ B4 Printed Wiring Board Conductor side B ~

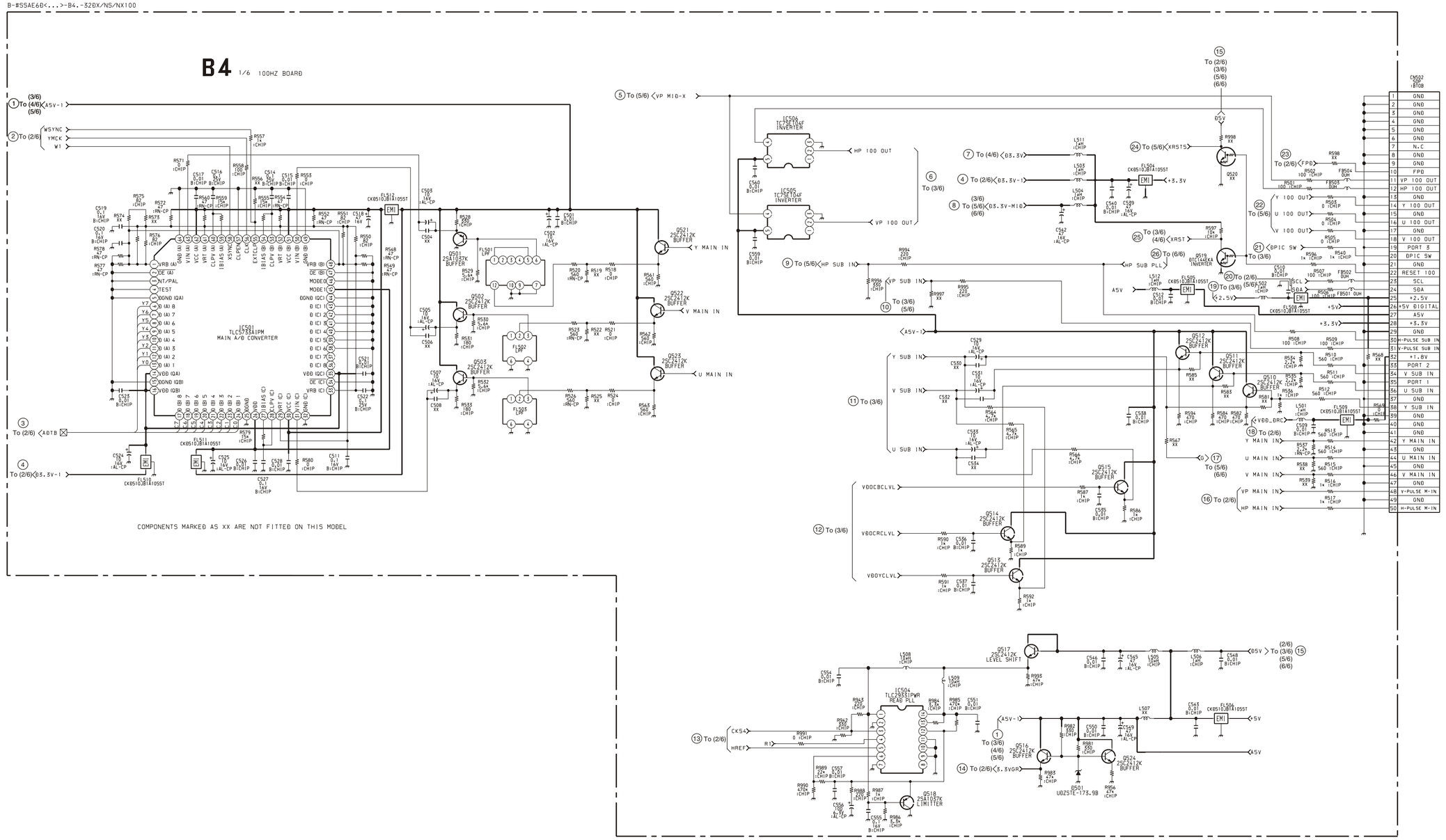




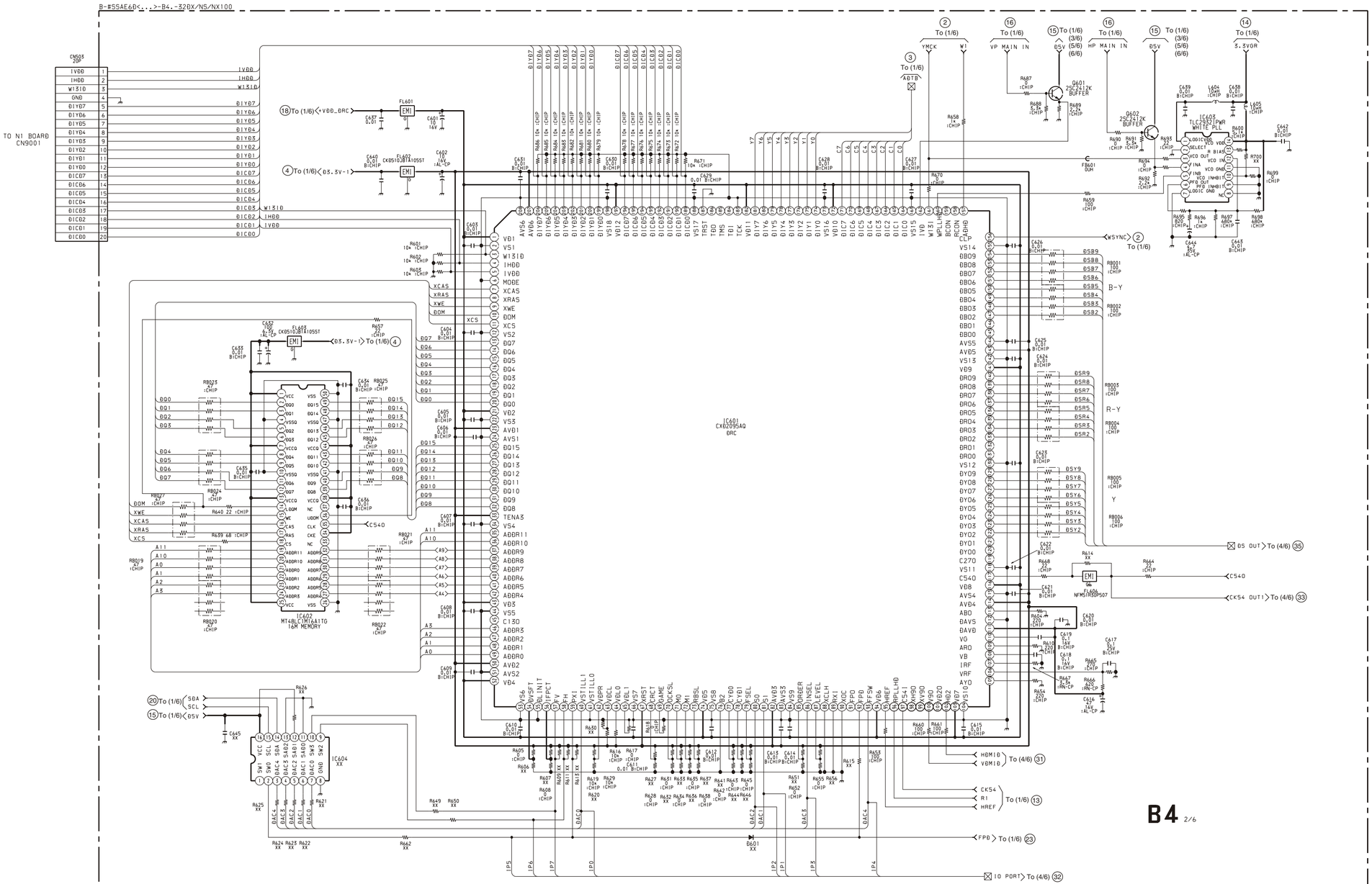
~ J1 Board Schematic Diagram [AV Switch with Chroma] ~

B-#SSAE6D<...>-B4.-32BX/NS/NX100

B4 1/6 100HZ BOARD



~ B4 Board Schematic Diagram [100 Hz Board] page 1/6 ~


B-#SSAE6D<...>-B4.-320X/NS/NX100
TO N1 BOARD CN9001
CN503 20P
IVDD 1
IHDD 2
W13ID 3
GND 4
D1Y07 5
D1Y06 6
D1Y05 7
D1Y04 8
D1Y03 9
D1Y02 10
D1Y01 11
D1Y00 12
D1C07 13
D1C06 14
D1C05 15
D1C04 16
D1C03 17
D1C02 18
D1C01 19
D1C00 20
18 To (1/6) VDD_DRC
4 To (1/6) D3.3V-1
FL601
FL602 CK0510JBTA105ST
IC601 CXD2095AQ DRC
IC602 M14BLC1M16A1TG 16M MEMORY
IC603 TLC29921PWR WHITE PLL
Q601 2SC2412K BUFFER
Q602 2SC2212K BUFFER
3 To (1/6) ADTB
2 To (1/6) YMCK
WI
16 To (1/6) VP MAIN IN
15 To (1/6) (3/6) (5/6) (6/6) D5V
16 To (1/6) HP MAIN IN
15 To (1/6) (3/6) (5/6) (6/6) D5V
14 To (1/6) 3.3VGR
WSYNC 2 To (1/6)
B-Y
R-Y
Y
D5 OUT To (4/6) 35
C540
CK54 OUT1 To (4/6) 33
HDMID To (4/6) 31
VDMID
CK54
RI
HREF
To (1/6) 13
FPD To (1/6) 23
IO PORT To (4/6) 32
20 To (1/6) SDA
SCL
15 To (1/6) D5V
B4 2/6

B4 3/6

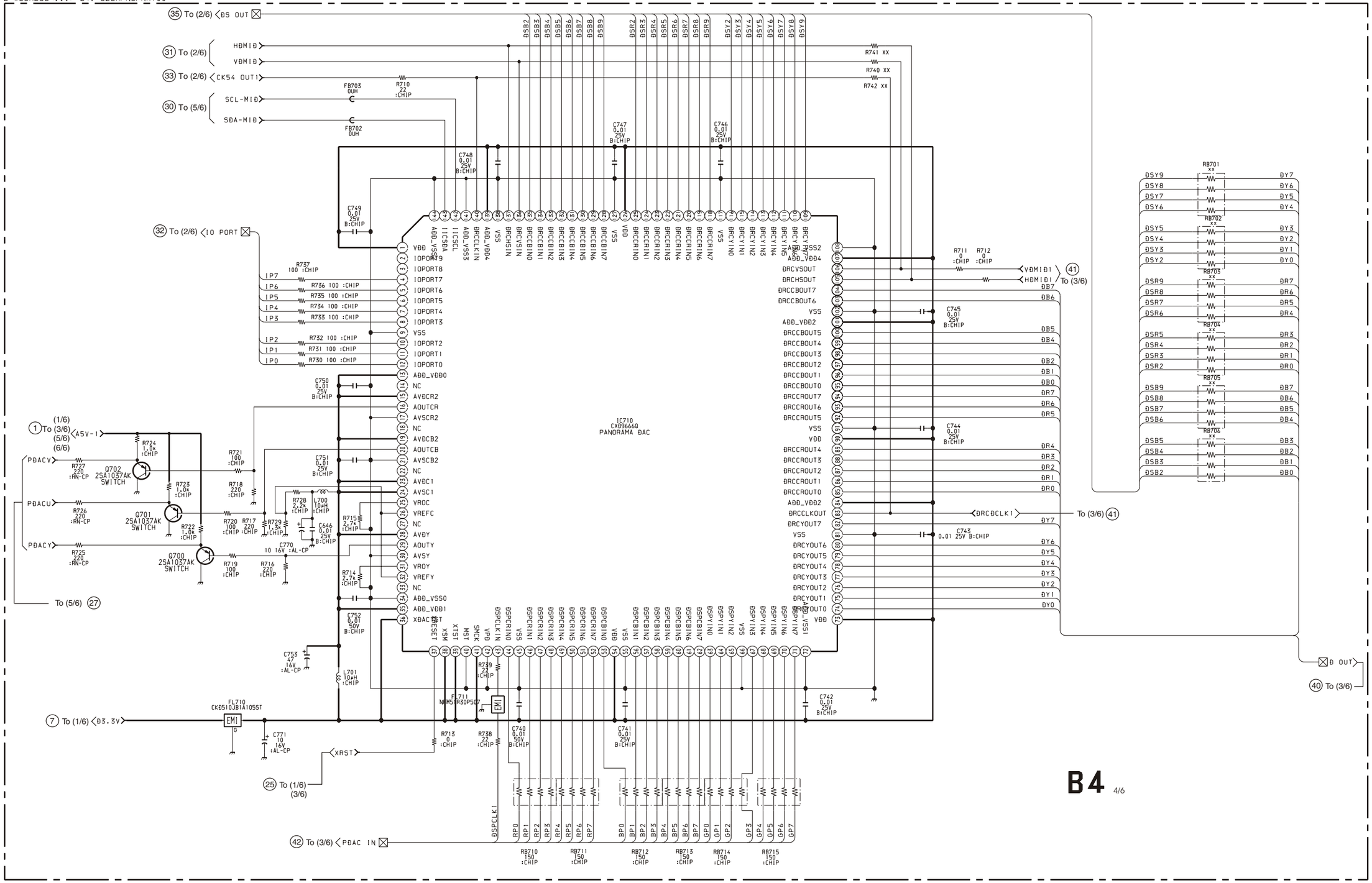
IC801
CXD9509AQ
PROCESSOR

IC802
MT48LC2M32B2TG-7
64M MEMORY

Q504
2SC2412K
BUFFER

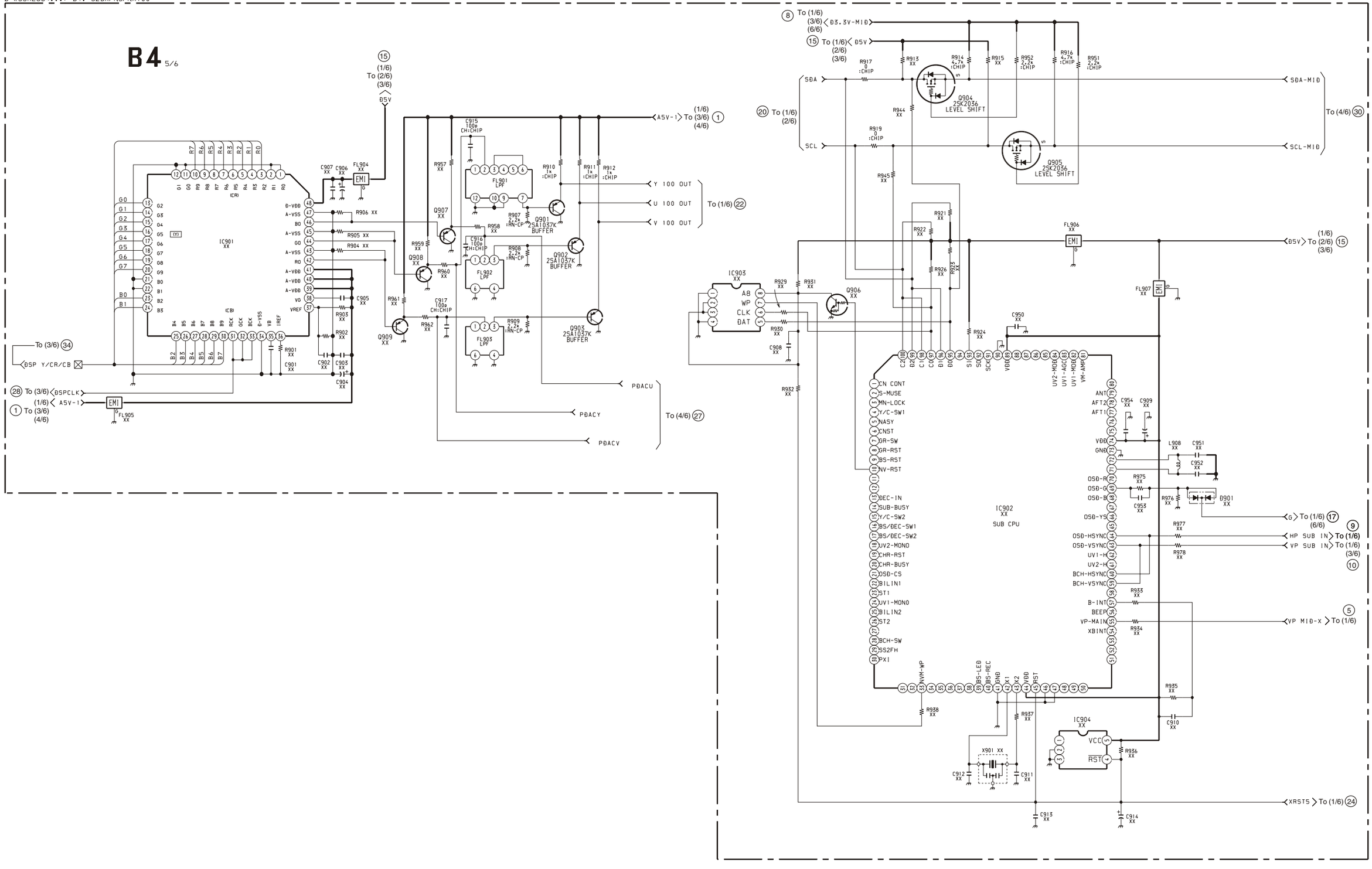
IC803
XX

~ B4 Board Schematic Diagram [100 Hz Board] page 3/6 ~



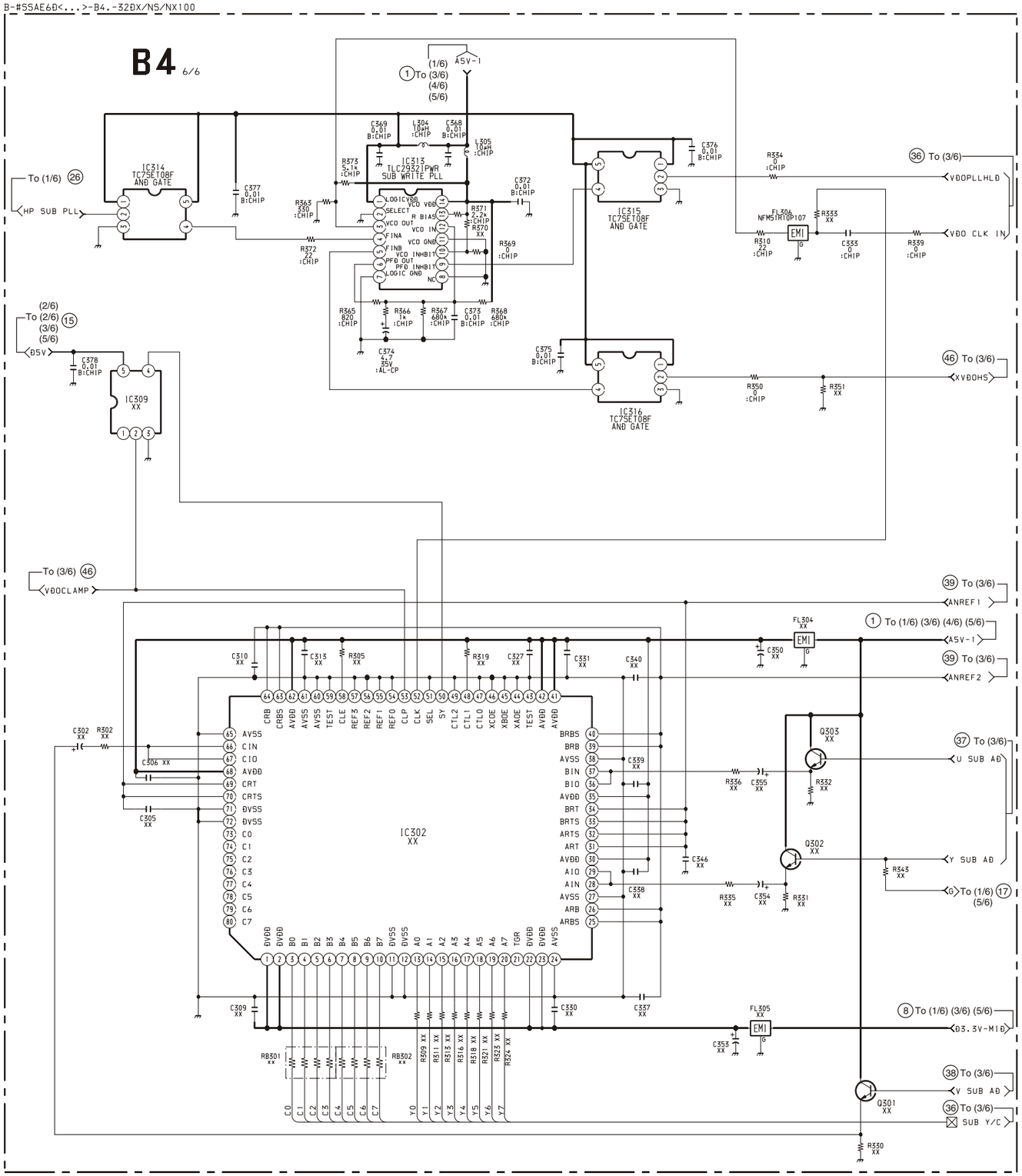
~ B4 Board Schematic Diagram [100 Hz Board] page 4/6 ~

B4 5/6



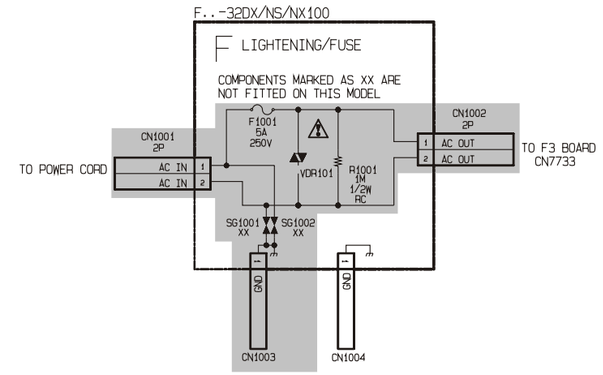
~ B4 Board Schematic Diagram [100 Hz Board] page 5/6 ~

B-#SSAE6D<...>-B4.-32DX/NS/NX100

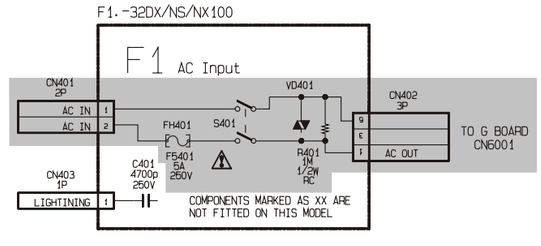


~ B4 Board Schematic Diagram [100 Hz Board] page 6/6 ~

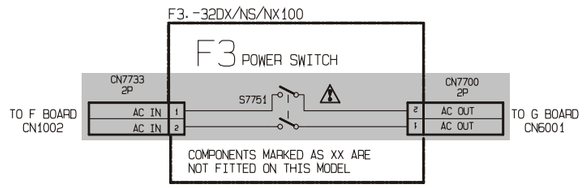
~ F Board Schematic Diagram [Lightening/Fuse] ~



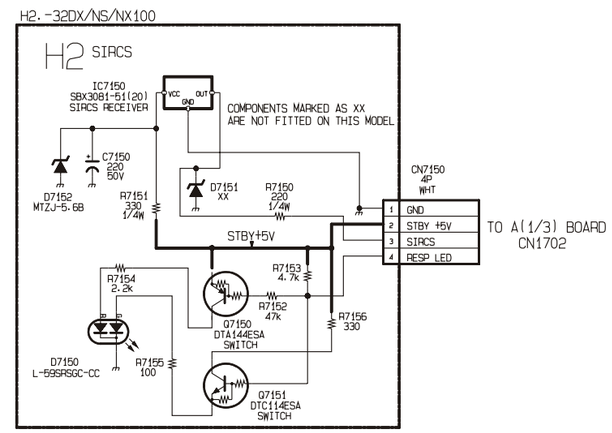
~ F1 Board Schematic Diagram [AC Input] ~



~ F3 Board Schematic Diagram [Power Switch] ~

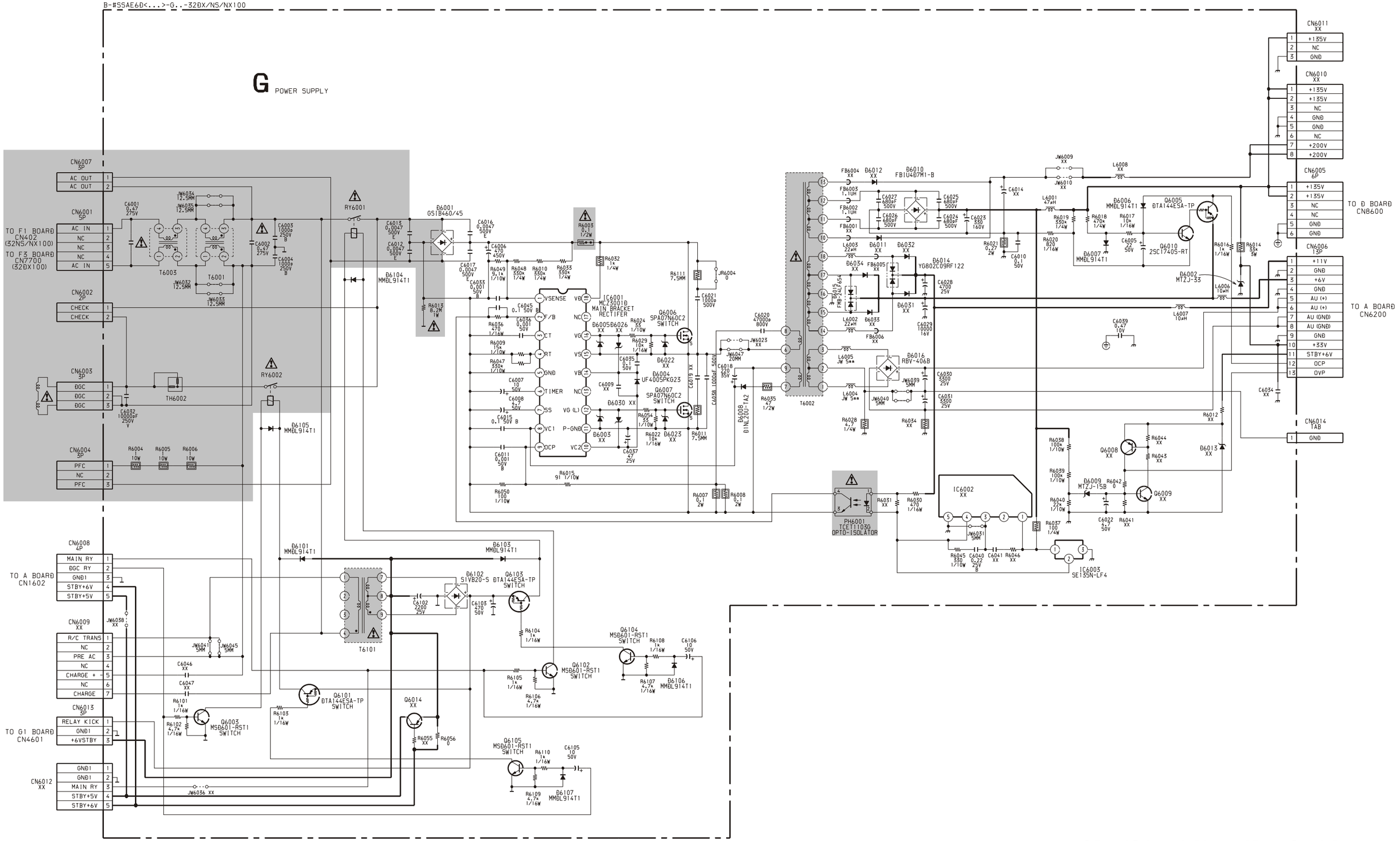


~ H2 Board Schematic Diagram [SIRCS] ~

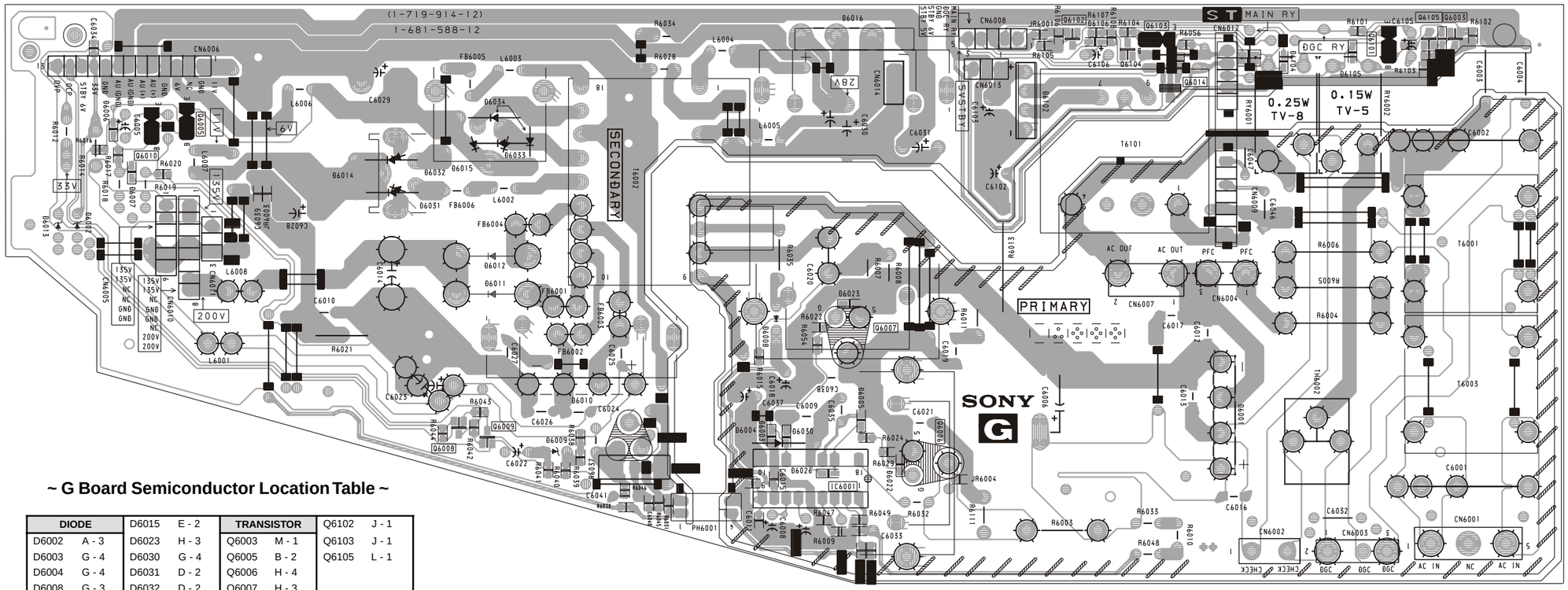


B-#SSAE6Ð<...>-G..-32ÐX/NS/NX100

G POWER SUPPLY



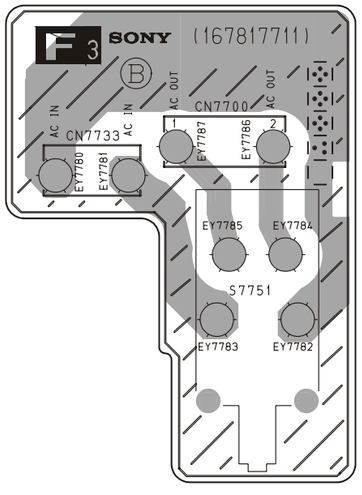
~ G Board Schematic Diagram [Power Supply] ~



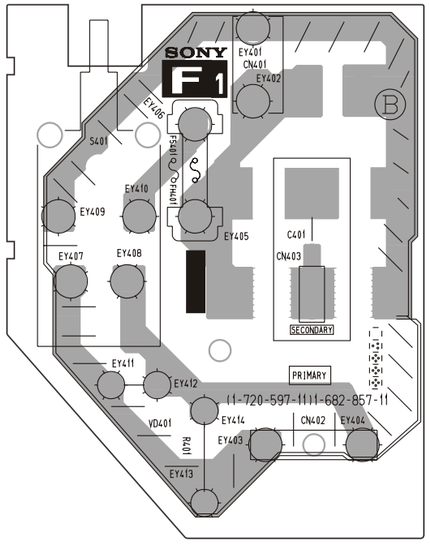
~ G Printed Wiring Board Conductor side ~

~ G Board Semiconductor Location Table ~

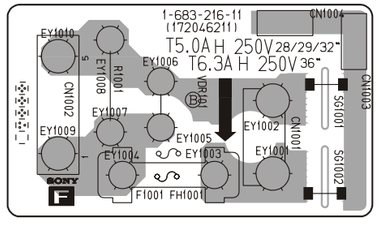
DIODE		D6015	E - 2	TRANSISTOR		Q6102	J - 1
D6002	A - 3	D6023	H - 3	Q6003	M - 1	Q6103	J - 1
D6003	G - 4	D6030	G - 4	Q6005	B - 2	Q6105	L - 1
D6004	G - 4	D6031	D - 2	Q6006	H - 4		
D6008	G - 3	D6032	D - 2	Q6007	H - 3		
D6009	E - 4	D6033	E - 2	Q6008	D - 4		
D6010	E - 4	D6034	E - 2	Q6009	E - 4		
D6011	E - 3	IC		Q6010	B - 2		
D6012	E - 3	IC6001	G - 5	Q6014	J - 2		
D6013	A - 3			Q6101	L - 1		



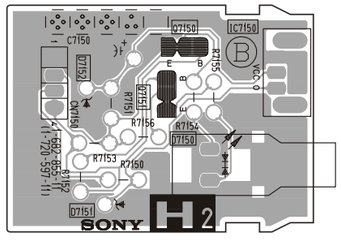
~ F3 Printed Wiring Board Conductor side ~



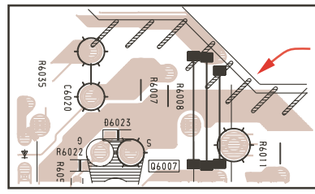
~ F1 Printed Wiring Board Conductor side ~



~ F Printed Wiring Board Conductor side ~

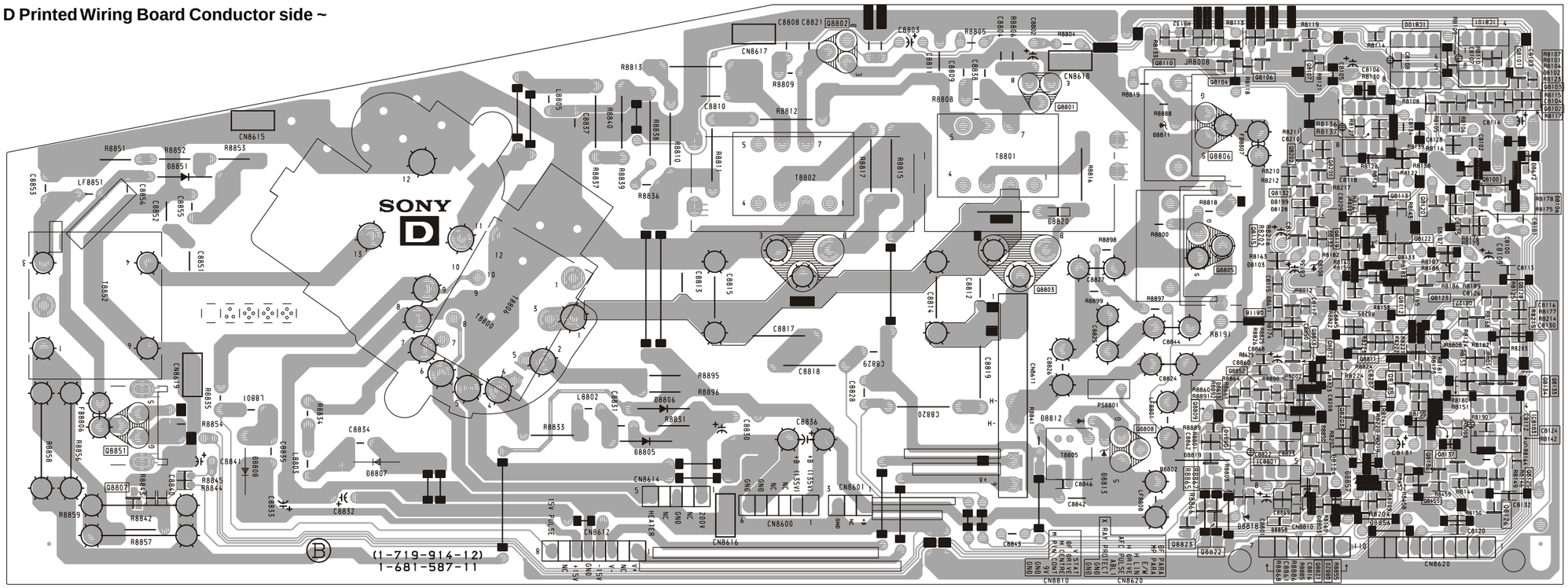


~ H2 Printed Wiring Board Conductor side ~

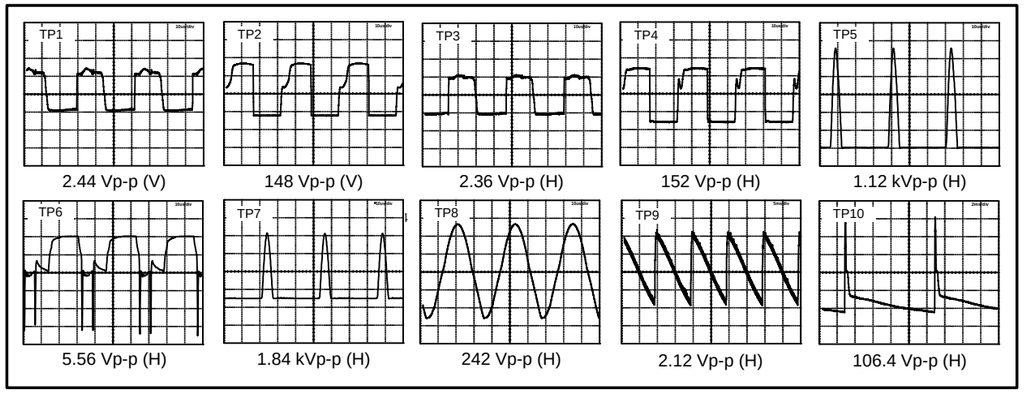


Note :
Portions of the circuit contained within the marked areas as shown have high voltages present. Use care to prevent electric shock during inspection or repair. An Isolation Transformer must be used during any Service work to avoid possible shock hazard due to live chassis. The chassis of this receiver is directly connected to the power line.

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~



~ D Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC8100	1	0.3
	2	4.3
	3	4.1
	5	4.1
	6	3.0
	7	0.4
IC8101	1	0.3
	2	4.3
	3	4.4
	5	4.4
	6	3.0
	7	0.4
IC8102	1	4.1
	2	0.4
	3	0.4
	5	0.4
	6	0.4
	7	0.4
IC8103	1	2.5
	2	2.1
	3	1.7
	5	1.6
	6	1.0
	7	1.1

~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0.6	3.6	Q8110	2.4	3.1	0	Q8128	3.4	1.5	8.9	Q8801	0	0.4	64.7
Q8101	0	0.6	4.3	Q8113	0.3	0.2	8.9	Q8132	0	0	3.4	Q8802	0	0.4	73.2
Q8102	0	0.3	4.3	Q8115	8.6	8.9	0	Q8135	2.6	3.2	8.9	Q8807	0	6.3	0
Q8103	4.0	0	8.9	Q8118	0	0	5.0	Q8136	2.5	1.8	0	Q8818	0	0	5.0
Q8104	0	0.4	3.1	Q8119	0.7	1.4	0	Q8137	1.8	2.5	8.9	Q8822	5.5	4.9	0
Q8105	0	0.4	3.2	Q8120	0.7	2.3	0	Q8201	0	0.6	3.9	Q8823	8.9	8.5	0
Q8106	0	0.3	4.3	Q8122	0.5	1.4	0	Q8202	0	0.8	3.4	Q8805	0	2.5	33
Q8107	0	0.3	4.2	Q8123	0.5	1.4	0	Q8203	1.4	0.9	0	Q8806	0	1.2	135
Q8108	2.4	3.2	0	Q8127	1.4	1.5	0	Q8455	1.1	1.7	8.9	Q8851	0	5.4	81.5

~ D Board Schematic Diagram [Deflection] ~

B-#SSAE6Ð<...>-Ð..-32ÐX/NS/NX100

CN8810 7P
- 1 V STAT
- 2 ÐF ÐRIVE
- 3 H CENTRE
- 4 M PIN CONT
- 5 +9V
- 6 GNÐ
- 7 GNÐ

TO A BOARÐ CN1807

CN8620 10P
- 1 ÐF PARA
- 2 MP PARA
- 3 E/W
- 4 H LIN
- 5 H ÐRIVE
- 6 AFC PULSE
- 7 ABL
- 8 X RAY PROTECT
- 9 GNÐ
- 10 GNÐ

TO A BOARÐ CN1805

CN8600 6P
- 1 +B (+135V)
- 2 +B (+135V)
- 3 NC
- 4 NC
- 5 GNÐ
- 6 GNÐ

TO G BOARÐ CN6005

CN8601 3P
- 1 +B
- 2 NC
- 3 GNÐ

TO VM BOARÐ CN5402

CN8615 XX
- 1 GNÐ

CN8616
- 1 GNÐ

CN8617 XX
- 1 GNÐ

CN8618 XX
- 1 GNÐ

CN8619 XX
- 1 GNÐ

CN8611 6P
- 6 V+
- 5 V-
- 4 H-
- 3 H-
- 2 H+
- 1 H+

TO C BOARÐ CN5634

CN8614 5P S-MICRO
- 1 +200V
- 2 NC
- 3 GNÐ
- 4 NC
- 5 HEATER

CN8612 8P S-MICRO
- 8 +15VPULSE
- 7 NC
- 6 +15V
- 5 GNÐ
- 4 -15V
- 3 V-
- 2 NC
- 1 V+

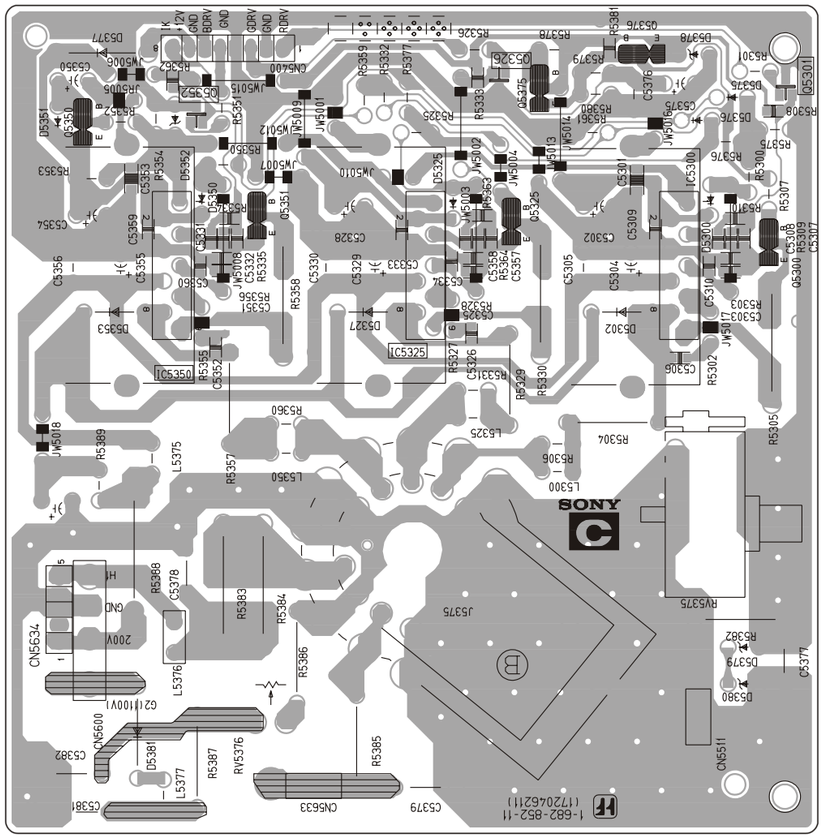
TO A BOARÐ CN1802

DY

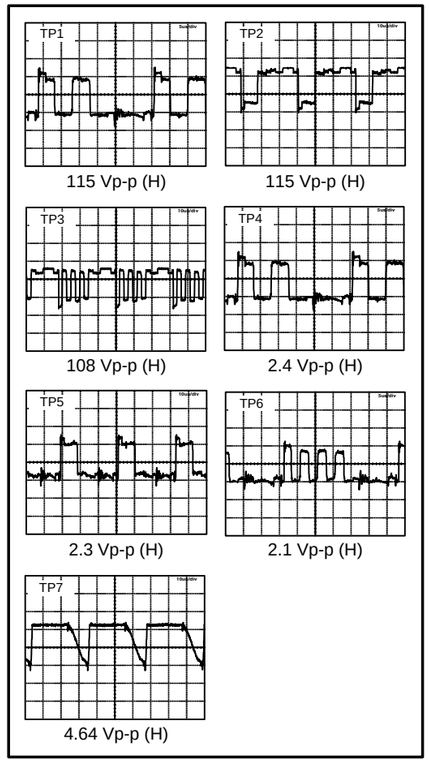
D DEFLECTION

COMPONENTS MARKED AS XX ARE NOT FITTED ON THIS MODEL

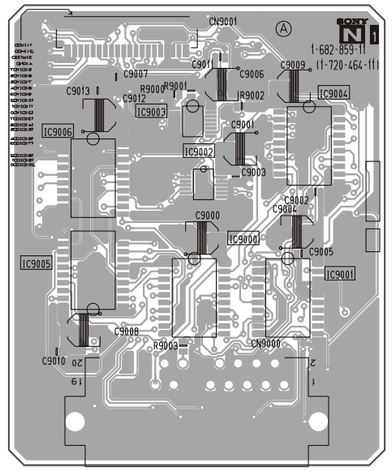
~ C Printed Wiring Board Conductor side ~



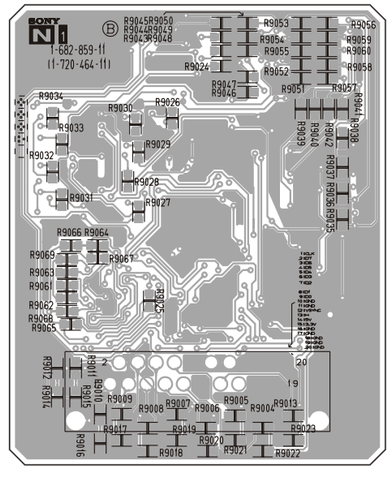
~ C Board Waveforms ~



~ N1 Printed Wiring Board Conductor side A ~



~ N1 Printed Wiring Board Conductor side B ~



~ C Board Semiconductor Voltage Table ~

Ref	(e)	(b)	(c)	Ref	(e)	(b)	(c)
Q5301	3.5	2.8	0	Q5300	3.7	4.4	3.8
Q5326	3.6	3	0	Q5325	3.7	4.4	3.8
Q5352	3.7	3	0	Q5351	3.8	4.4	3.9
Q5375	10.3	10.9	11	Q5350	11	10.9	3.9
Q5376	11	10.3	10.9				

~ C Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC5300	1	3.9
	3	3.8
	5	8.4
	7	153.0
	8	157.0
	9	152.0
IC5325	1	3.9
	3	3.8
	5	8.7
	7	150.0
	8	155.0
	9	150.0
IC5350	1	3.9
	3	3.8
	5	8.4
	7	150.0
	8	156.0
	9	149.0

C..-32DX/NS/NX100

C R, G, B CRT DRIVE

CN5400 8P
R DRV 1
GND 2
G DRV 3
GND 4
B DRV 5
GND 6
+12V 7
IK 8
TO A BOARD CN1804
TP1 R
TP2 G
TP3 B
TP7

R5375 33k
R5376 10k
R5300 1k
R5325 1k
D5375 1SS133T
D5376 1SS133T
R5377 2.2K
+12V
R5308 2.2k
R5333 2.2k
R5362 2.2k
R5301 100
R5326 100
Q5301 2SB709A BUFFER
Q5326 2SB709A BUFFER
R5351 100
D5377 GPO8DPKG23
Q5375 2SC1740S VOLTAGE DET
Q5352 2SB709A BUFFER
C5307 18p CH
R5309 2k
R5310 2.7k
C5308 6p CH
D5300 1SS119

+12V
R5378 10k
R5381 1.8k
D5378 MTZJ-13B
R5379 56k
Q5376 2SA933AS VOLTAGE DET
C5375 1 50V
C5376 100p B
R5380 22k
R5334 2.7k
C5331 6p CH
R5335 2k
C5332 15p CH
R5364 2k
C5357 15p
R5363 2.7k
C5358 4p CH

IC5300 TDA6111Q/N4
RED-VIDEO-OUT
VBVb 12V VI GND IK 200V VF VO VOF
C5305 0.047 400V
R5302 5MM
C5310 68p
C5304 1 400V
C5306 4700p
C5302 470 16V
D5302 1SS83TD
C5309 47000p F
C5301 47000p F
R5303 2.2k
C5303 4p CH
R5304 220 1/2W
R5305 100k 3W
Q5300 2SC25510 STANDBY SWITCH
R5307 22k

IC5325 TDA6111Q/N4
GREEN-VIDEO-OUT
VB 12V VI GND IK 200V VF VO VOF
C5330 0.047 400V
R5327 5MM
C5334 68p CH
C5326 4700p B
R5329 220 1/2W
L5325 1uH
R5331 3.9k
R5330 100k 3W
R5332 22k
Q5325 2SC25510 STANDBY SWITCH
D5325 1SS119
C5333 47000p F
C5328 470 16V
R5328 2.2k
C5325 4p CH
C5329 1 400V
D5327 1SS83TD

IC5350 TDA6111Q/N4
BLUE-VIDEO-OUT
VB 12V VI GND IK 200V VF VO VOF
C5356 0.047 400V
R5355 5MM
C5353 47000p F
D5350 1SS119
C5360 68p CH
C5352 4700p B
R5358 100k 3W
R5359 22k
Q5351 2SC25510 STANDBY SWITCH
R5361 15k
L5350 1uH
R5360 3.9k
R5357 220 1/2W
C5354 470 16V
C5359 47000p F
D5353 1SS83TD
C5355 1 400V
R5356 2.2k
C5351 4p CH

R5350 1k
Q5350 DTA144ESA POWER ON SWITCH
D5351 1SS133T
R5353 2.2k
R5352 820
C5350 22
R5354 1.2k
D5352 XX

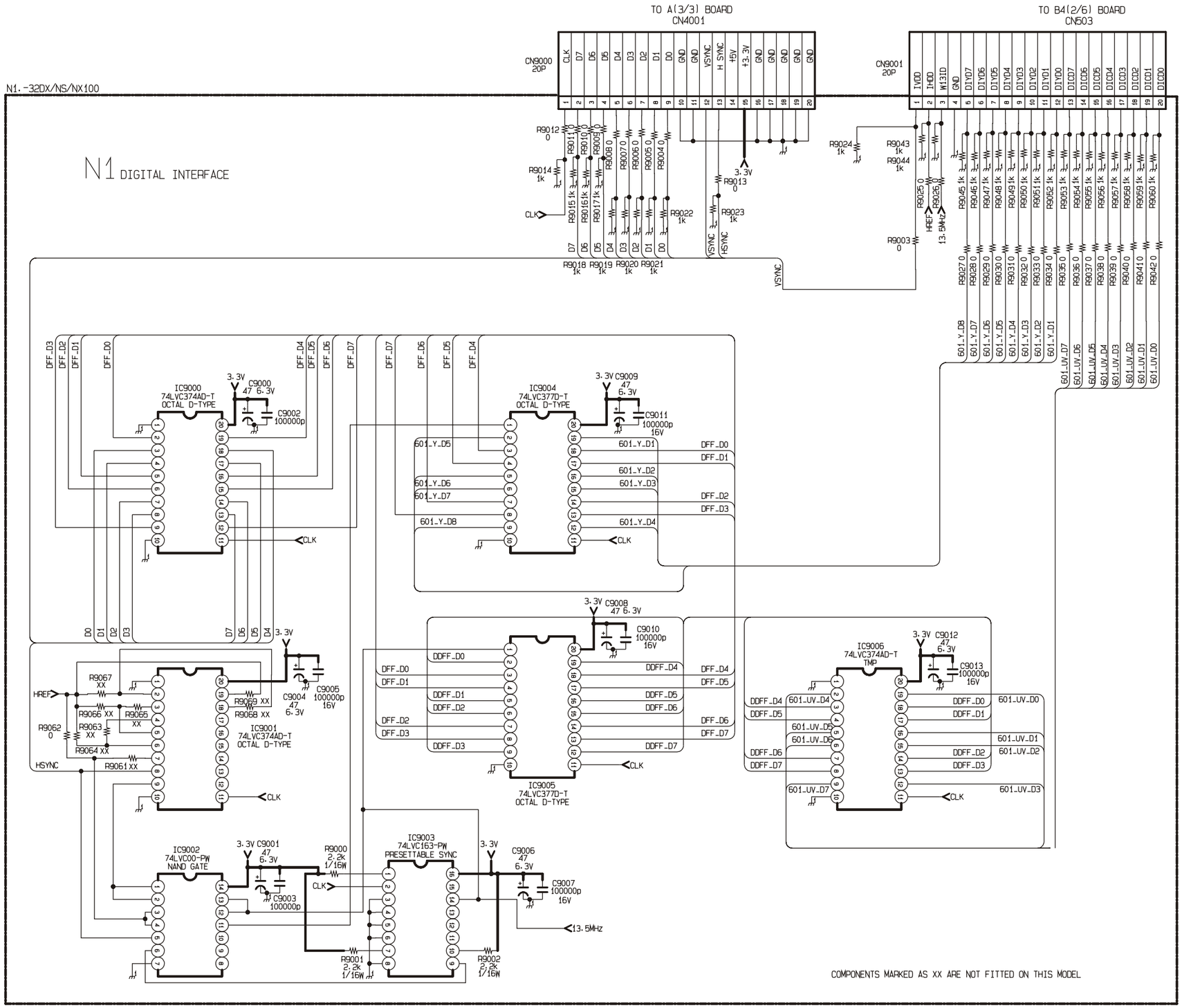
FV FOCUS
external
RV5375 110M
J5375
TP4
TP5
TP6
R5383 6.8 3W
R5384 6.8 3W
L5376
C5378 680p 2kV B
D5379 MTZJ-2.2A
D5380 MTZJ-2.2A
C5377 2200p 1KV R
R5382 100 1/2W
R5306 3.9k
L5300 1uH
C5380 10 250V
R5385 100 1/2W
RV5376 XX
R5387 XX
L5377 XX
D5381 XX
C5379 4700p 2kV E
R5386 XX
C5382 XX
C5381 XX
R5388 100 3W
R5389 1k 1/4W

TO FBT
CN5633 TAB(CONTACT)
CN5634 5P WHT
1 +200V
2 NC
3 GND
4 NC
5 H1
TO D BOARD CN8614
CN5600
4 H1
3 GND
2 +200V
1 G2 (+1100V)
CN5511 TAB(CONTACT)
1 TO COATING EARTH

+200V
+12V
+200V
G
B
R

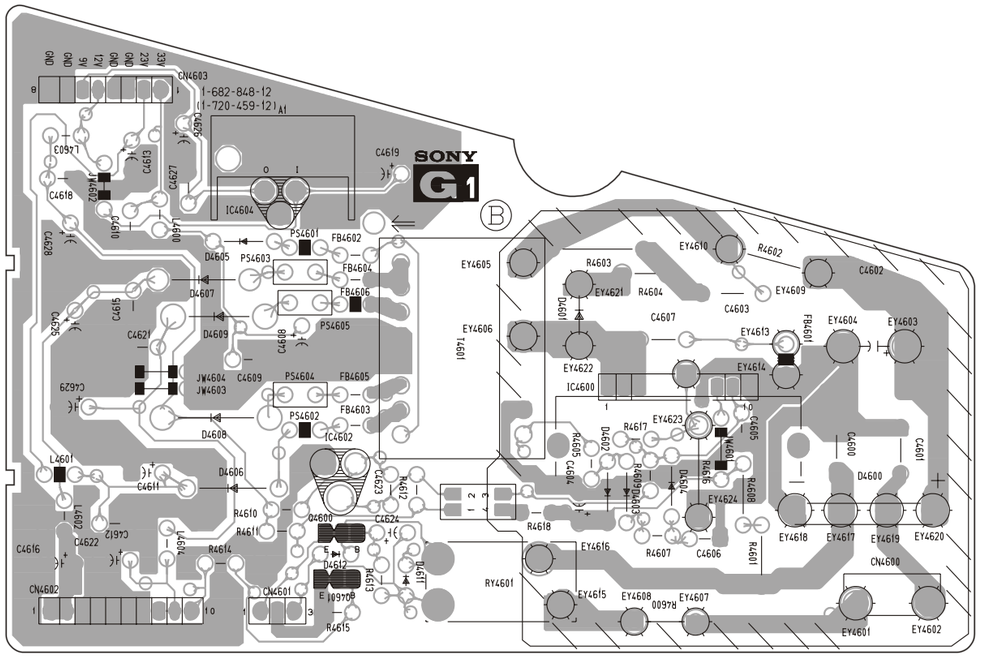
V901
W76LLZ060X
PICTURE TUBE
KG KB G2
H
CV KR G1 G4 HV
TO D BOARD HV (T8800)
TO COATING EARTH

COMPONENTS MARKED AS 'XX' ARE NOT FITTED ON THIS MODEL

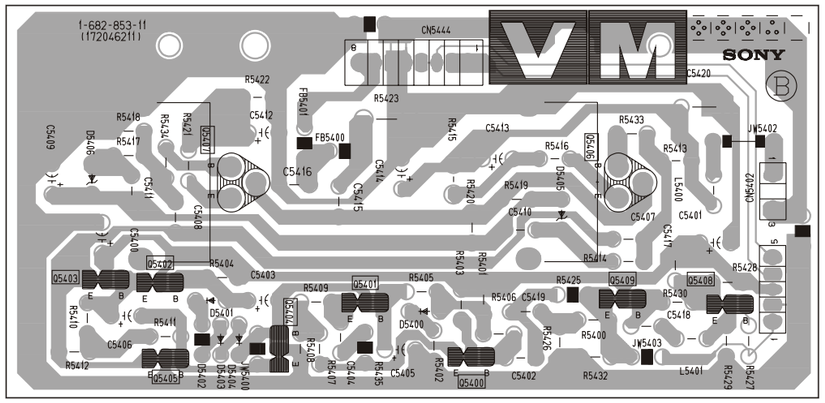


~ N1 Board Schematic Diagram [Digital Interface] ~

~ G1 Printed Wiring Board Conductor side ~



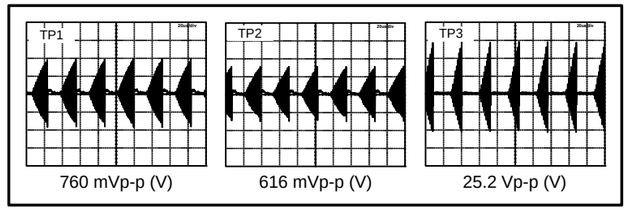
~ VM Printed Wiring Board Conductor side ~



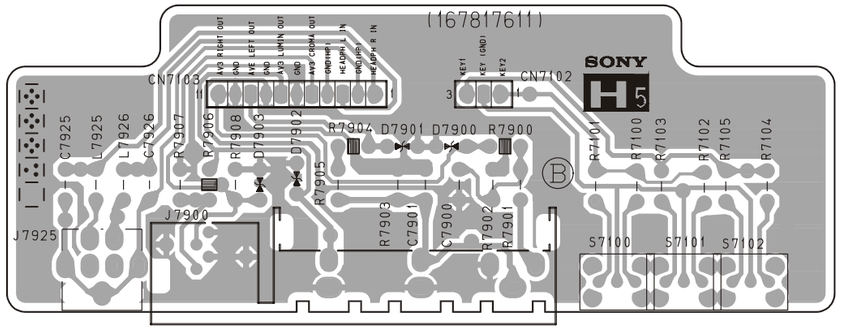
~ VM Board Semiconductor Voltages ~

Ref	(e)	(b)	(c)
Q5400	0.9	1.5	9.0
Q5401	1.0	1.6	5.2
Q5402	6.0	6.6	9.0
Q5403	5.9	6.0	9.0
Q5404	5.2	5.9	0
Q5405	5.9	5.8	0
Q5406	135.1	134.6	68.2
Q5407	0.8	1.4	68.2
Q5408	7.6	6.9	1.4
Q5409	6.9	7.5	9.0

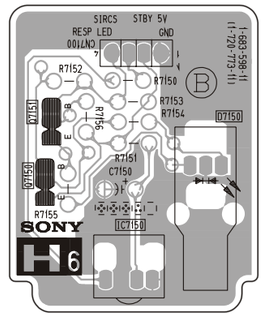
~ VM Board Waveforms ~



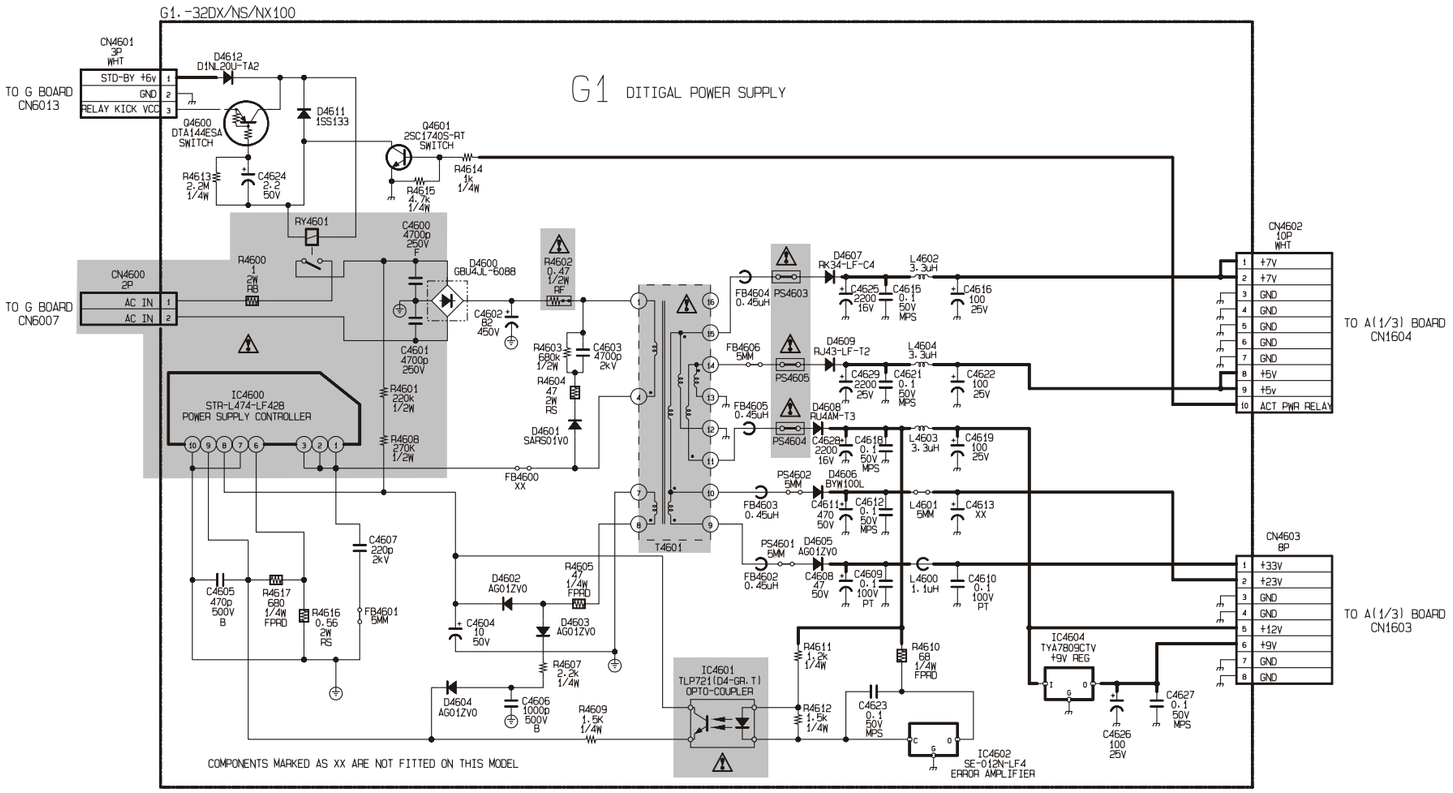
~ H5 Printed Wiring Board Conductor side ~



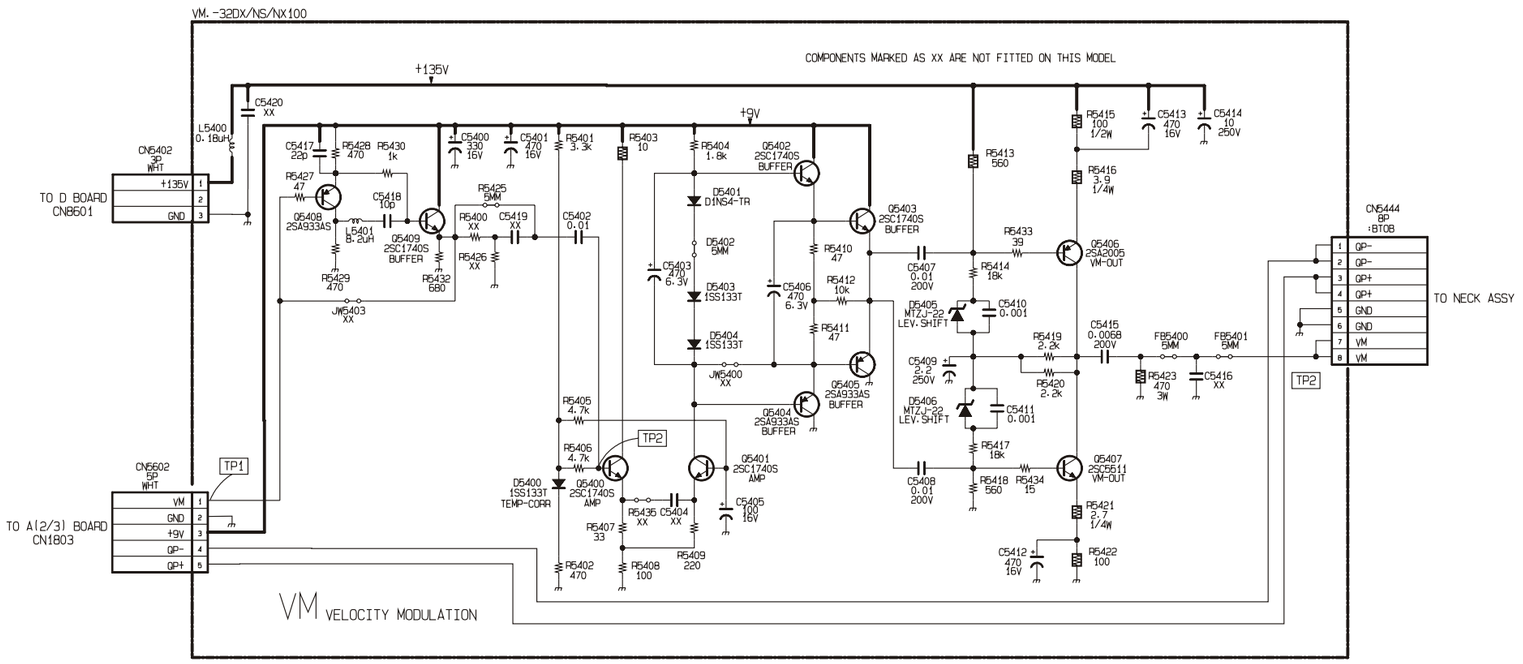
~ H6 Printed Wiring Board Conductor side ~



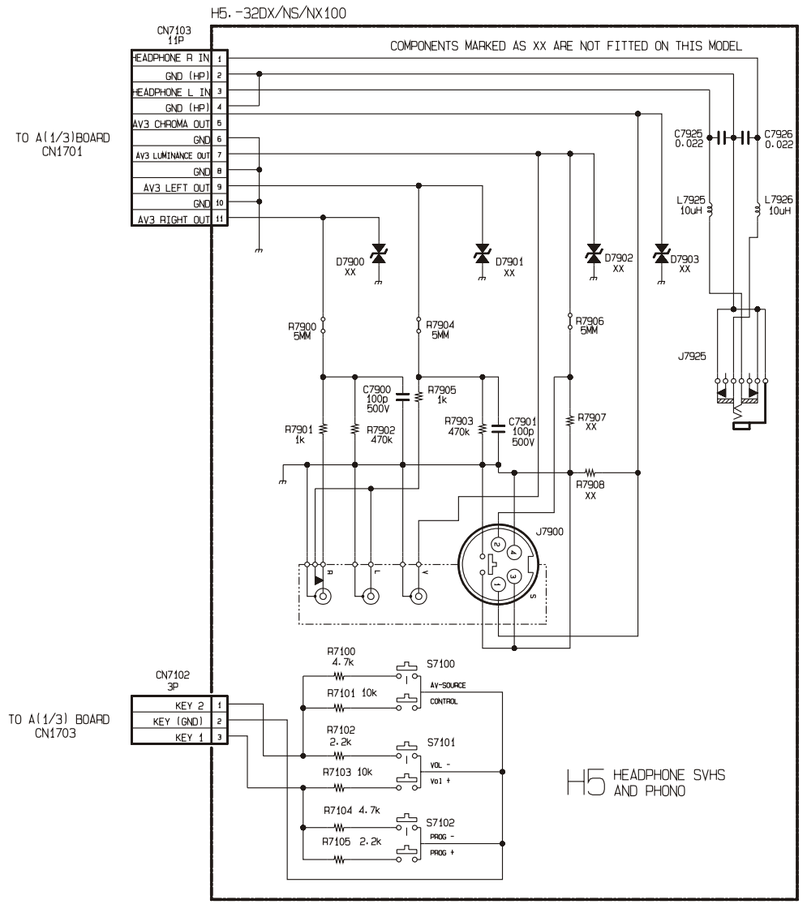
~ G1 Board Schematic Diagram [Digital Power Supply] ~



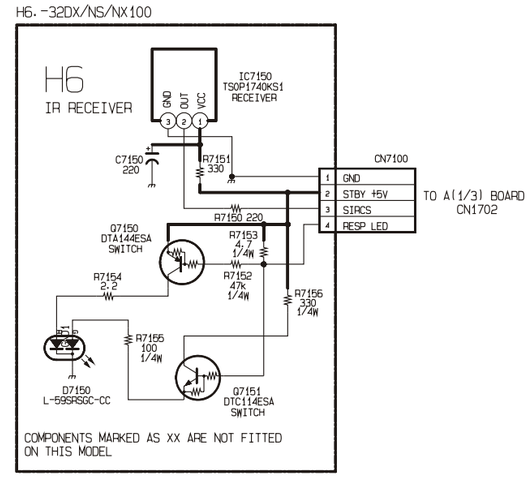
~ VM Board Schematic Diagram [Velocity Modulation] ~



~ H5 Board Schematic Diagram [Headphone SVHS and Phono] ~

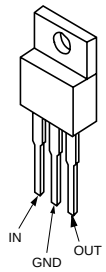


~ H6 Board Schematic Diagram [IR Receiver] ~

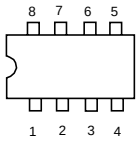


5-4. SEMICONDUCTORS

BA09T
SE-012N-LF4



LM318P
LM358DR
LM393DT
LM393N



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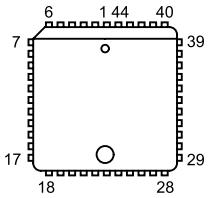
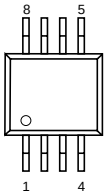
M24C32-MN6T
TDA2822D013TR

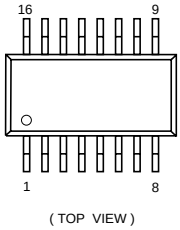
M27C800-100K1



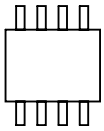
NJM3403AM
NJM3404AD-W
NJM3404AM-T1



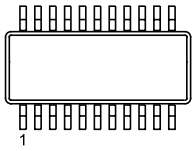
CXA1875AM-T4
HE4094BT



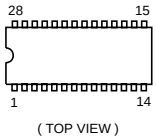
MB3793-42PNF-ER



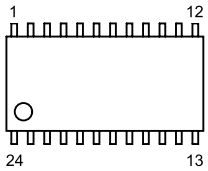
PCF8591T
PCF8593/T118



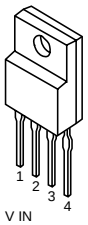
CXD2064Q
CXD2095AQ



MB88141APF-ER

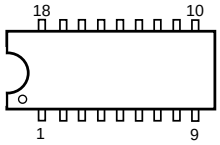


KA278R05-YDTU

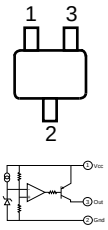


1 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

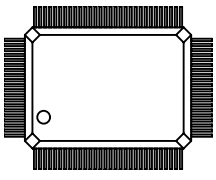
MCZ3001D



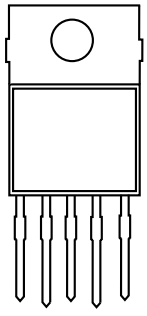
PST573IMT-T1



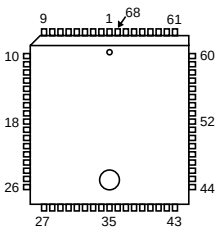
SAB-C161R1-LM



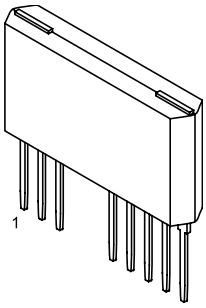
LA6500-FA



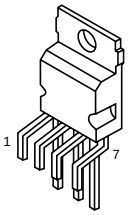
MSP3411G-QA-B10



STR-L474-LF428



STV9379



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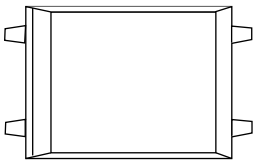
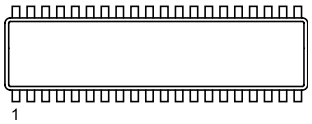


TC55257DFTL-70V

TC74HC4066AF



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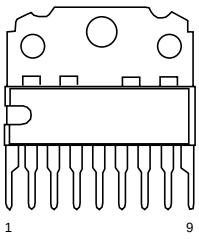

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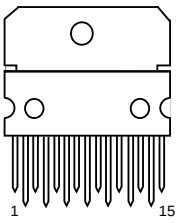

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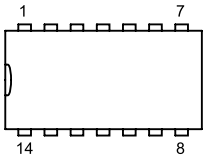
TLC2933IPWR-12



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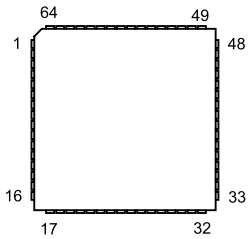

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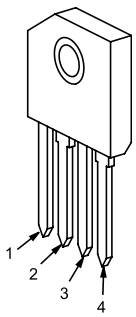

74LVC00-PW
74LVC08APW
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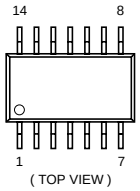
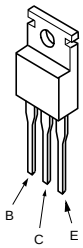
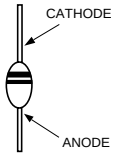
74LVC273PW
74LVC32A-PW
74LVC374AD-T
74LVC377D-T
74LVC541APW



IRF614-037
IRF620



BYV98-200-RAS 15/12



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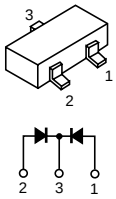

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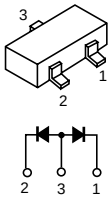

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DTC114YKA-T146
DTC144EKA
DTC144EKA-T146
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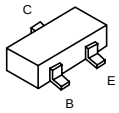
2SA1037K-T-146-R
2SA1162-G
2SC1623-L5L6
2SC12K-T-146-R



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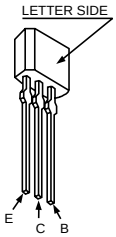

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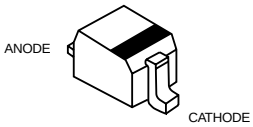
SARS01V1
UDZSTE-173.9B
UDZSTE-175.1B
UDZSTE-175.6B
UDZSTE-176.2B
UDZSTE-179.1B
UDZS-4.7B
UDZS-12B
UDZ-TE-17-12B
UDZ-TE-17-33B
UDZ-TE-17-8.2B



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D1NSA
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EL1Z
GP08D
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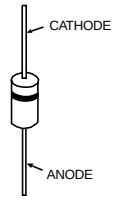
1SS83



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MTZJ-T-77-2.2A
MTZJ-13B
MTZJ-15B
MTZJ-8.2C
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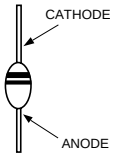
MTZJ-33B
MTZJ-4.7C
RD15ES-B2
RD18ES-B2
RD5.6ESB2
1SS119-25



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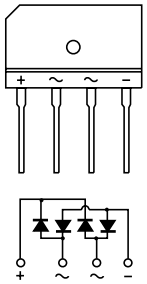

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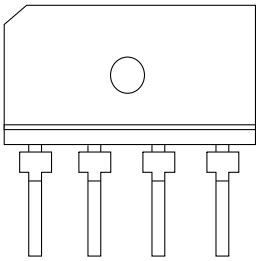

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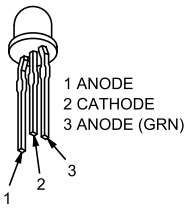

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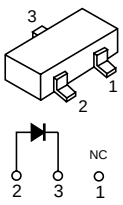

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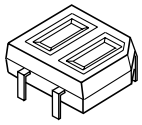

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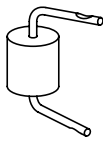

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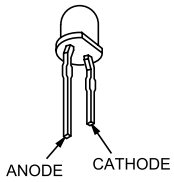

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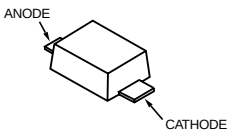
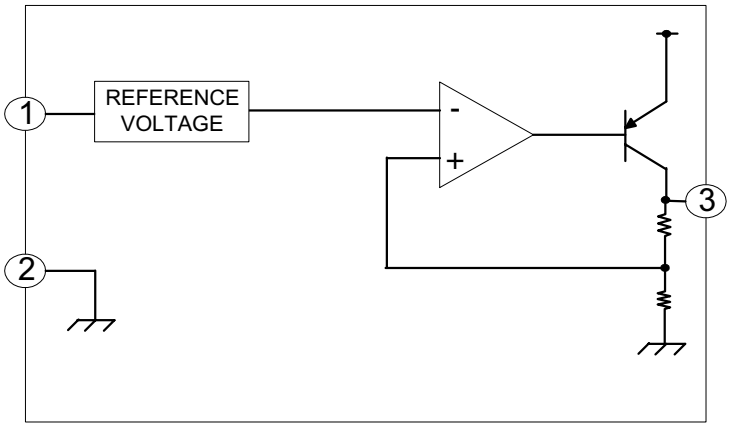
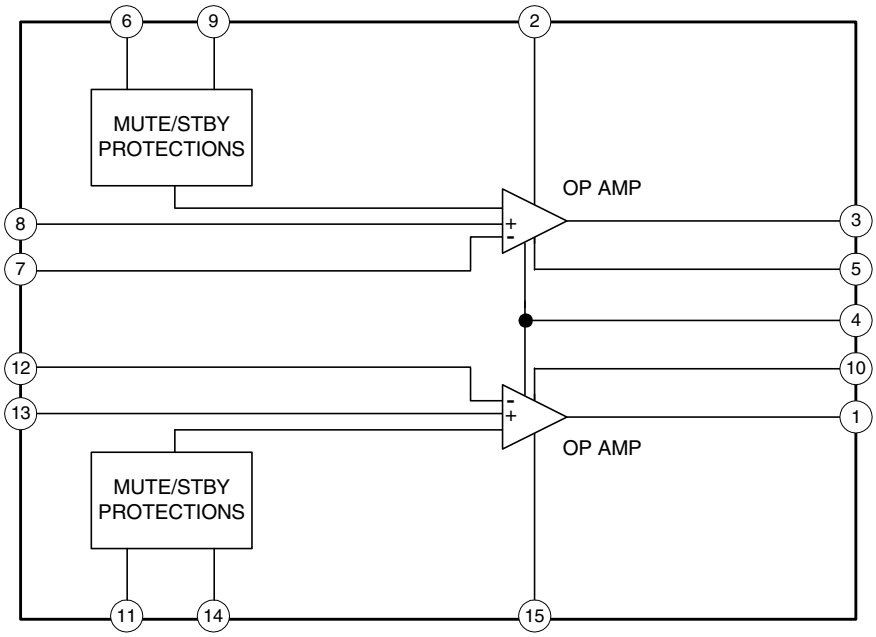


5-5 IC BLOCK DIAGRAMS

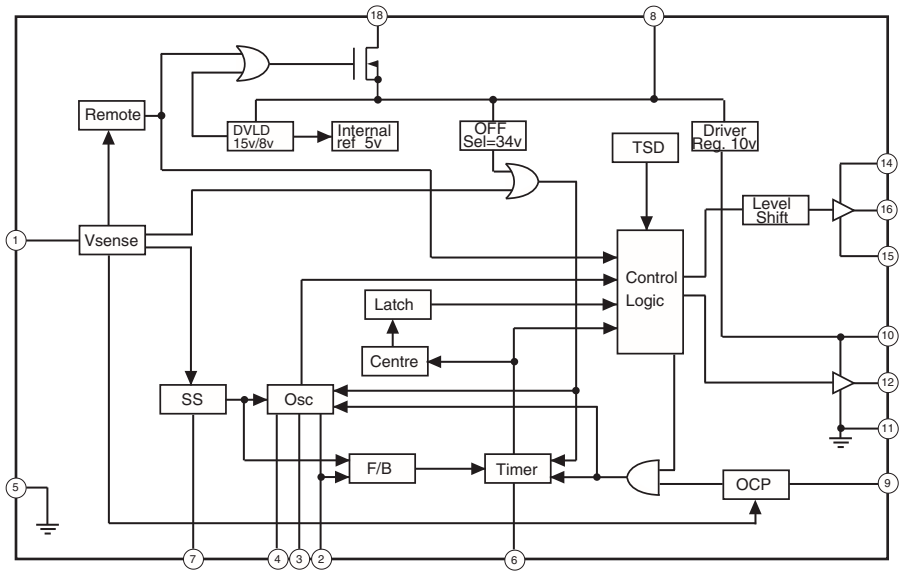
A BOARD IC1005/IC1010/IC1011 BA05T



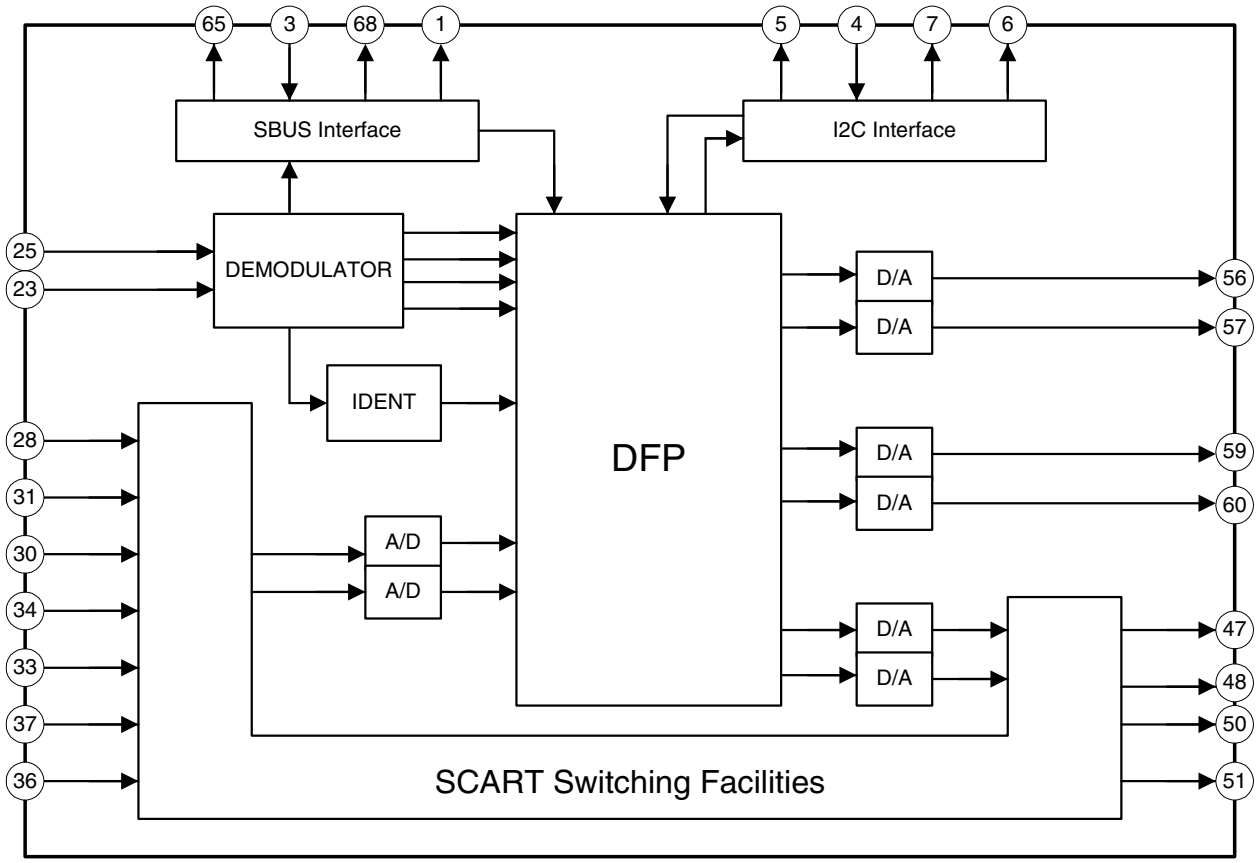
A BOARD IC1202 LM1876TF



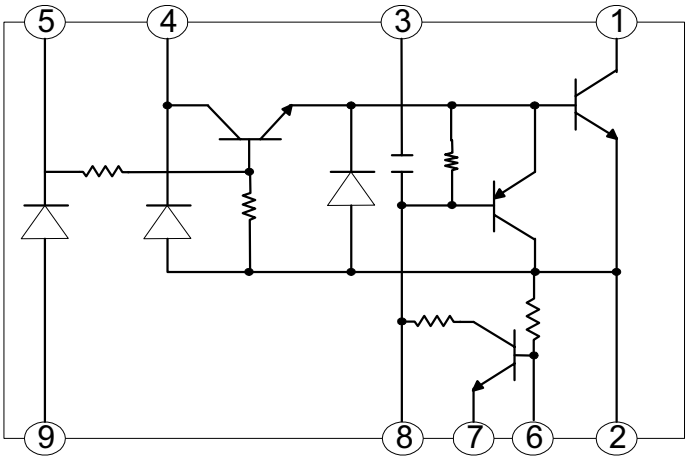
G BOARD IC6001 MCZ3001D



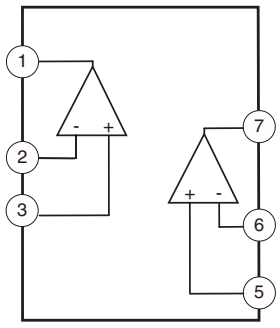
A BOARD IC1231 MSP3411G



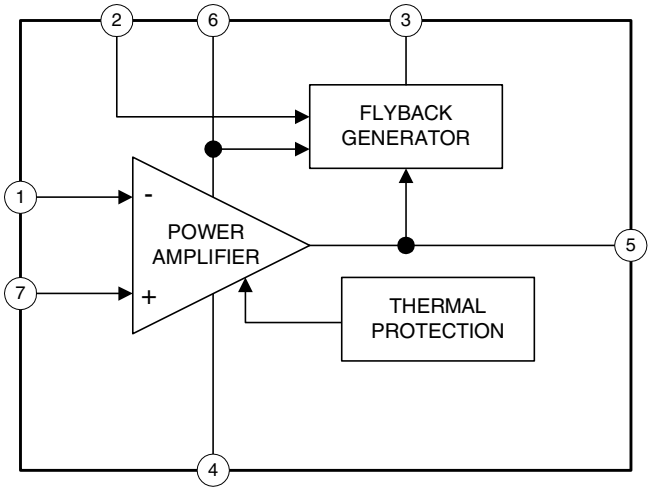
G BOARD IC6003 SE135N-LF4



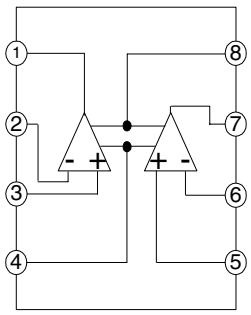
A BOARD IC1801/IC1804/IC1808 LM393DT
D BOARD IC8100/IC8101/IC8102/IC8103
LM393N NJM3404AD



A BOARD IC1701 STV9379



A BOARD IC1401/IC1802 LM358D



SECTION 6
EXPLODED VIEWS

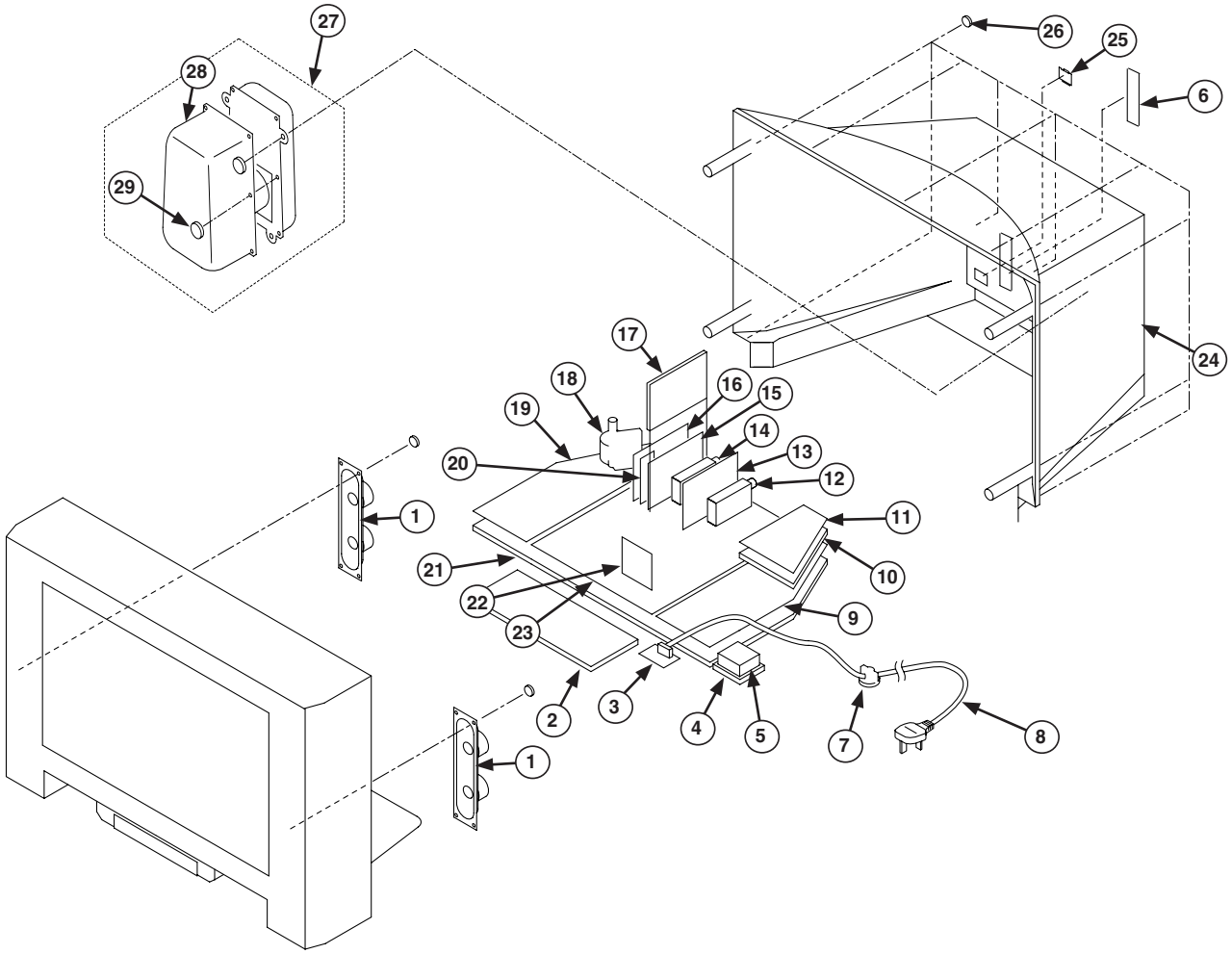
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

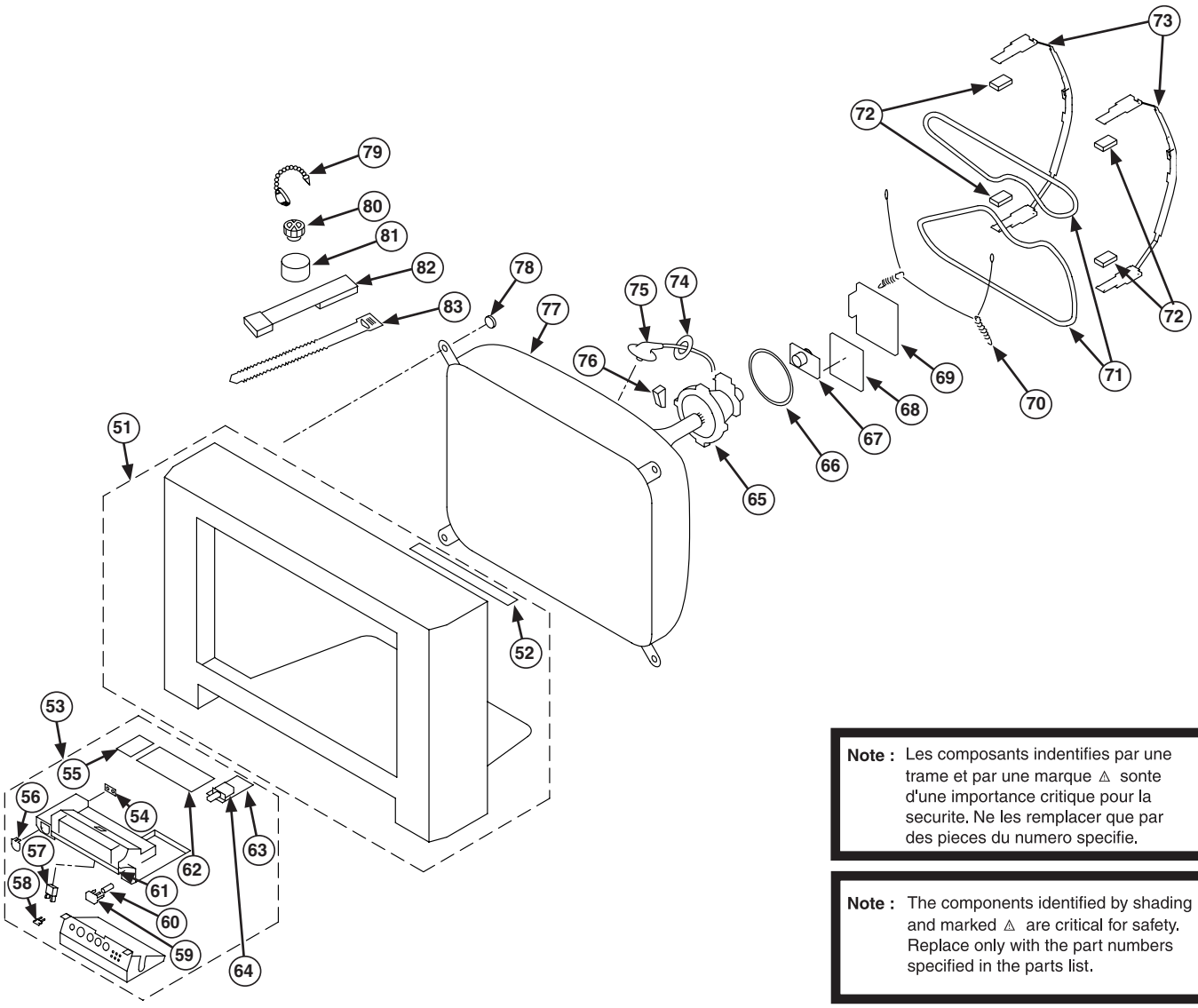
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. CHASSIS KD-32DX100



REF.NO.		PART.NO	DESCRIPTION	REMARK
1		1-529-408-11	SPEAKER (4.2X24CM)	
2		*4-206-494-01	BRACKET, H	
3		*A-1624-110-A	F BOARD, COMPLETE	
4		*4-206-565-01	BRACKET, PFC	
5		1-424-855-11	COIL, CHOKE 29MMH	
6		4-206-493-11	PMCIA COVER	
7		4-202-531-01	AC CORD LOCK (SC)	
8	⚠	1-776-204-12	CORD, POWER (FILTER)	
9		*A-1636-054-A	G BOARD, COMPLETE	
10		*4-206-383-01	BRACKET, G1	
11		*A-1636-052-A	G1 BOARD, COMPLETE	
12		8-598-529-01	FRONT END BTF-EU611	
13		*A-1651-144-A	J1 BOARD, COMPLETE	
14		8-598-585-00	FRONT END BTD-DU604	
15		*A-1652-080-A	N BOARD, COMPLETE	
16		*A-1620-152-A	B4 BOARD, COMPLETE	
17		*X-4200-759-1	SHIELD N ASSY	
18	⚠	1-453-383-11	TRANSFORMER ASSY, FLYBACK (NX-4522//Z214)	
19		*A-1640-444-A	D BOARD, COMPLETE	
20		*A-1652-081-A	N1 BOARD, COMPLETE	
21		*4-206-106-41	BRACKET, (MAIN)	
22		*A-1634-066-A	M3 BOARD, COMPLETE	
23		*A-1631-164-A	A BOARD, COMPLETE	
24		4-205-272-11	REAR COVER	
25		4-206-388-11	SERVICE PLATE	
26		4-039-358-01	SCREW (4X16), (+) BV TAPPING	
27		A-1678-215-A	WOOFER ASSY	28,29
28		4-204-775-21	BAFFLE WOOFER	
29		4-039-358-01	SCREW (4X16), (+) BV TAPPING	

6-2. PICTURE TUBE KD-32DX100



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4200-778-1	BEZNET ASSY	52
52		4-203-128-31	SHEET, BLOTTING	
53		A-1610-103-A	FRONT CONTROL ASSY	54-63
54		4-205-464-12	GUIDE, LIGHT	
55		*A-1646-259-A	H6 BOARD, COMPLETE	
56		4-205-463-12	WINDOW, ORNAMENTAL	
57		4-047-464-01	CATCHER, PUSH	
58		4-202-555-01	SHAFT, DOOR	
59		4-205-462-12	BUTTON, POWER	
60		4-202-964-11	SPRING	
61		*4-205-460-12	BRACKET, CONTROL	
62		*A-1646-210-A	H5 BOARD, COMPLETE	
63		*A-1624-085-A	F3 BOARD, COMPLETE	
64	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
65	⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2)	
66		1-419-363-11	COIL, NA ROTATION	
67		8-453-011-11	NECK ASSY, (NA299-M)	
68		*A-1644-126-A	VM BOARD, COMPLETE	
69		*A-1638-162-A	C BOARD, COMPLETE	
70		4-200-433-01	SPRING, EXTENSION	
71	⚠	1-424-888-11	COIL, DEGAUSSING	
72		*4-203-390-41	CUSHION, DGC	
73		*4-059-569-01	HOLDER, DGC	
74		4-202-693-01	HOLDER, HV CABLE	
75	⚠	1-251-317-63	CAP ASSY, HIGH-VOLTAGE	
76		4-203-658-01	SPACER, DY	
77	⚠	8-735-079-05	PICTURE TUBE (W76LLZ060X)	
78		4-204-225-01	PT-SCREW	
79		4-308-870-00	CLIP, LEAD WIRE	
80		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
81		1-452-032-00	MAGNET, DISK; 10MM Ø	
82		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
83		3-701-007-00	BAND, BINDING	

SECTION 6
EXPLODED VIEWS

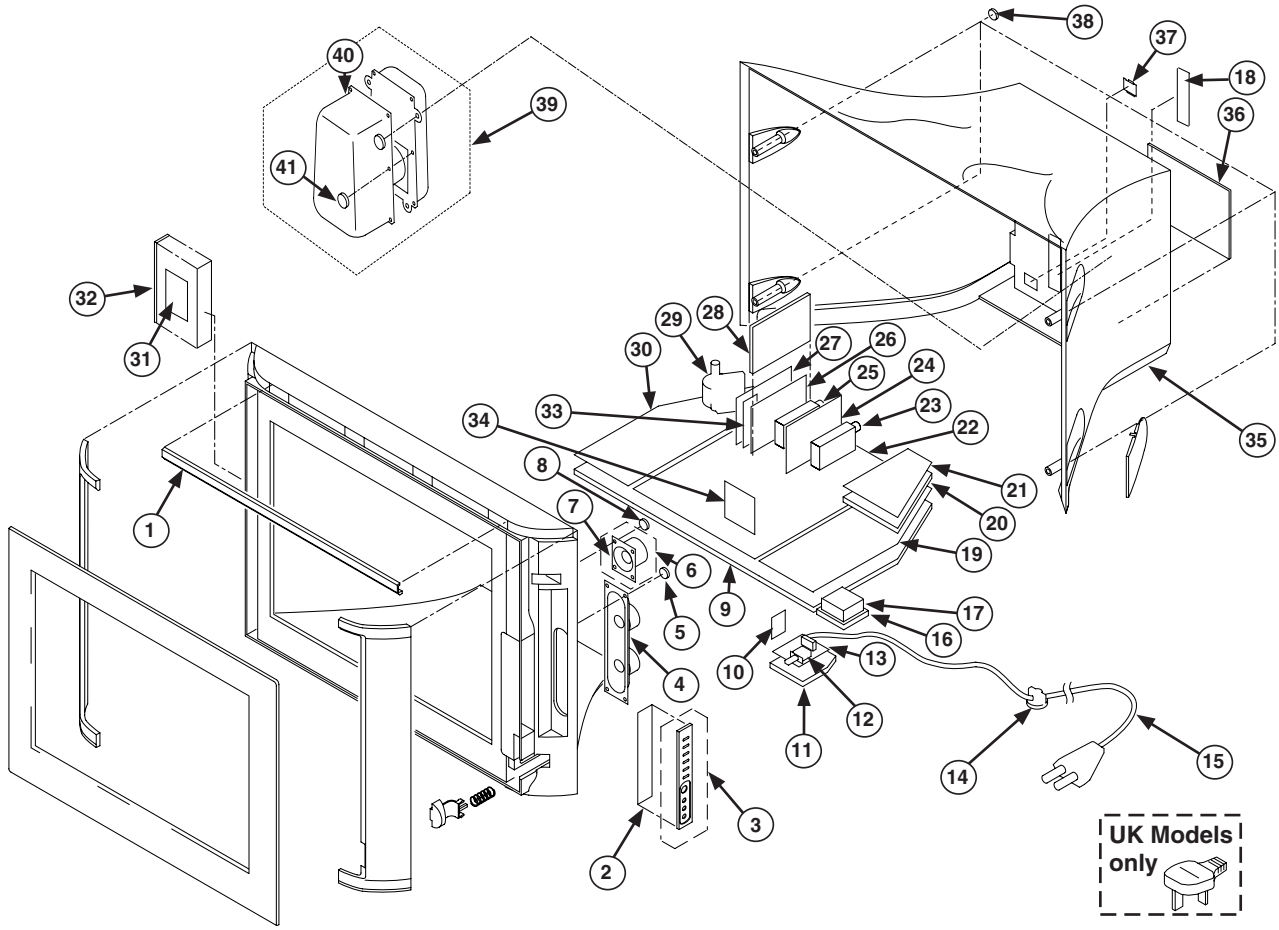
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

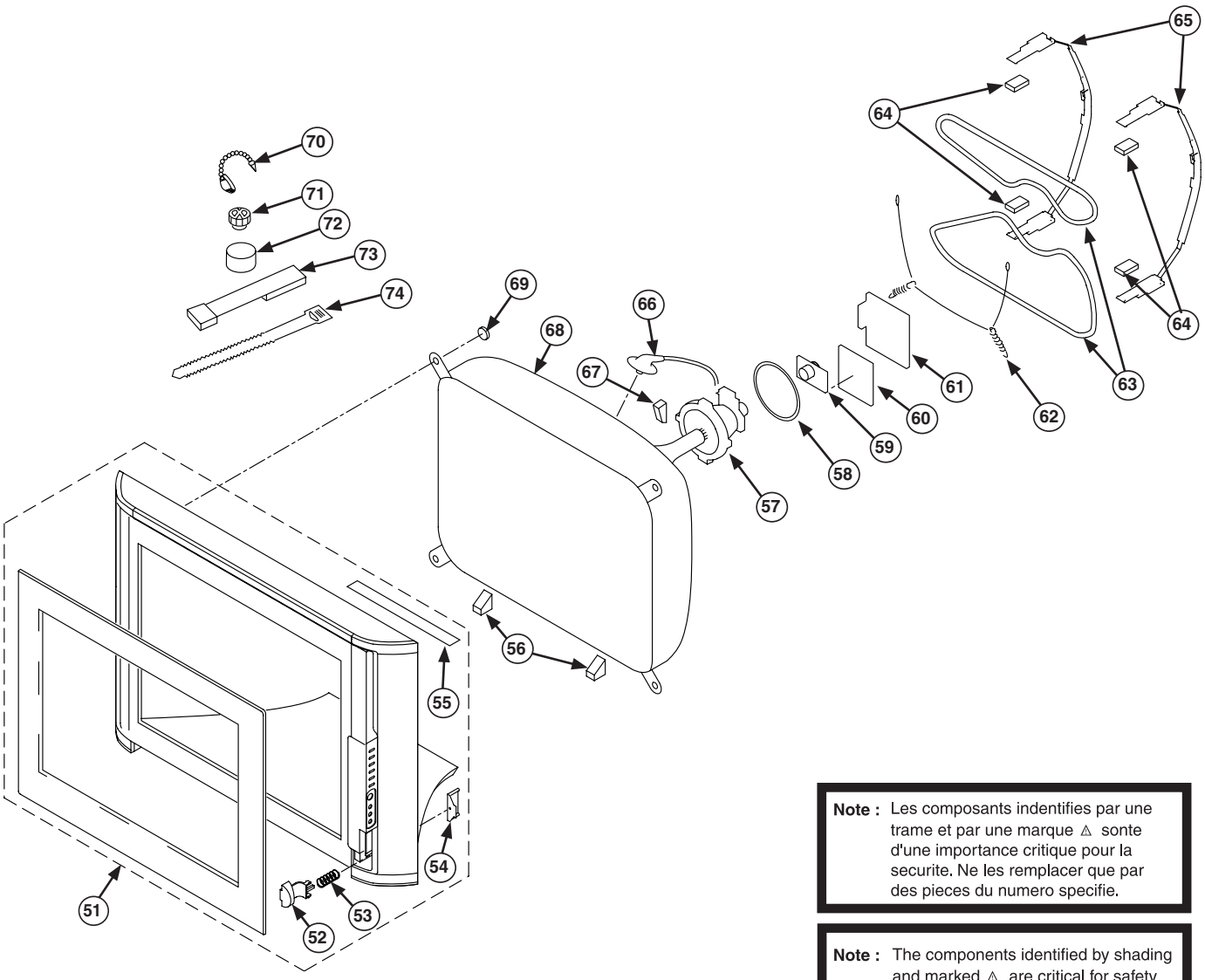
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-3. CHASSIS KD-32NS100/32NX100



REF.NO.		PART.NO	DESCRIPTION	REMARK
1		4-206-356-01	PLATE, ORNAMENTAL	
2		*A-1646-247-A	H1 BOARD, COMPLETE	
3		X-4200-754-1	CONTROL ASSY	
4		1-529-408-11	SPEAKER (4.2X24CM)	
5		4-384-096-01	SCREW (4X16), TAPPING, +P	
6		A-1678-178-A	TWEETER SUB ASSY	7
7		1-529-155-11	SPEAKER (4.2X2.7CM)	
8		4-039-358-01	SCREW (4X16), (+) BV TAPPING	
9		*4-206-106-11	BRACKET, MAIN	
10		*A-1646-248-A	H2 BOARD, COMPLETE	
11		*4-206-382-01	BRACKET, F1	
12	⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
13		*A-1624-108-A	F1 BOARD, COMPLETE	
14		*4-202-531-01	AC CORD LOCK (SC)	
15	⚠	1-792-389-11	CORD, POWER (KD-32NS100)	
		1-776-204-12	CORD, POWER (FILTER) (KD-32NX100)	
16		*4-206-384-01	BRACKET, PFC	
17		1-424-855-11	COIL, CHOKE 29MMH	
18		4-206-493-01	PCMCIA COVER	
19		*A-1636-054-A	G BOARD, COMPLETE	
20		*4-206-383-01	BRACKET, G1	
21		*A-1636-052-A	G1 BOARD, COMPLETE	
22		*A-1631-170-A	A BOARD, COMPLETE (KD-32NS100)	
		*A-1631-164-A	A BOARD, COMPLETE (KD-32NX100)	
23		8-598-535-11	FRONT END BTF-EF411 (KD-32NS100)	
		8-598-529-01	FRONT END BTF-EU611 (KD-32NX100)	
24		*A-1651-144-A	J1 BOARD, COMPLETE	
25		8-598-562-00	MODULE, INTERFACE DQS-CE102F (KD-32NS100)	
		8-598-585-00	FRONT END BTD-DU604 (KD-32NX100)	
26		*A-1652-082-A	N BOARD, COMPLETE (KD-32NS100)	
		*A-1652-084-A	N BOARD, COMPLETE (KD-32NX100)	
27		*A-1620-152-A	B4 BOARD, COMPLETE	
28		*X-4200-759-1	SHIELD N ASSY	
29	⚠	1-453-383-11	TRANSFORMER ASSY, FLYBACK (NX-4522//Z214)	
30		*A-1640-444-A	D BOARD, COMPLETE	
31		*A-1646-249-A	H3 BOARD, COMPLETE	
32		*4-206-360-01	BRACKET, H3	
33		*A-1652-081-A	N1 BOARD, COMPLETE	
34		*A-1634-066-A	M3 BOARD, COMPLETE	
35		4-206-371-01	REAR COVER	
36		*4-206-372-01	DOOR, REAR	
37		4-206-388-01	SERVICE PLATE	
38		4-039-358-01	SCREW (4X16), (+) BV TAPPING	
39		A-1678-215-A	WOOFER ASSY	39,40
40		*4-204-775-21	BAFFLE WOOFER	
41		4-039-358-01	SCREW (4X16), (+) BV TAPPING	

6-4. PICTURE TUBE KD-32NS100/32NX100



Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
51		X-4200-753-1	BEZNET ASSY	52-55
52		4-206-354-01	BUTTON, POWER	
53		4-202-964-11	SPRING	
54		4-206-361-01	LIGHT, GUIDE	
55		4-203-128-31	SHEET, BLOTTING	
56		*4-203-098-01	SUPPORTER, CRT	
57	⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2)	
58		1-419-363-11	COIL, NA ROTATION	
59		8-453-011-11	NECK ASSY (NA299-M)	
60		*A-1644-126-A	VM BOARD, COMPLETE	
61		*A-1638-162-A	C BOARD, COMPLETE	
62		4-200-433-01	SPRING, EXTENSION	

REF.NO.		PART.NO	DESCRIPTION	REMARK
63	⚠	1-424-888-11	COIL, DEGAUSSING	
64		*4-203-390-41	CUSHION, DGC	
65		*4-059-569-01	HOLDER, DGC	
66	⚠	1-251-317-63	CAP ASSY, HIGH-VOLTAGE	
67		4-203-658-01	SPACER, DY	
68	⚠	8-735-079-05	PICTURE TUBE (W76LLZ060X)	
69		4-204-225-01	PT-SCREW	
70		4-308-870-00	CLIP, LEAD WIRE	
71		1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
72		1-452-032-00	MAGNET, DISK; 10MM Ø	
73		X-4387-214-1	PERMALLOY ASSY, CORRECTION	
74		3-701-007-00	BAND, BINDING	

SECTION 6
EXPLODED VIEWS

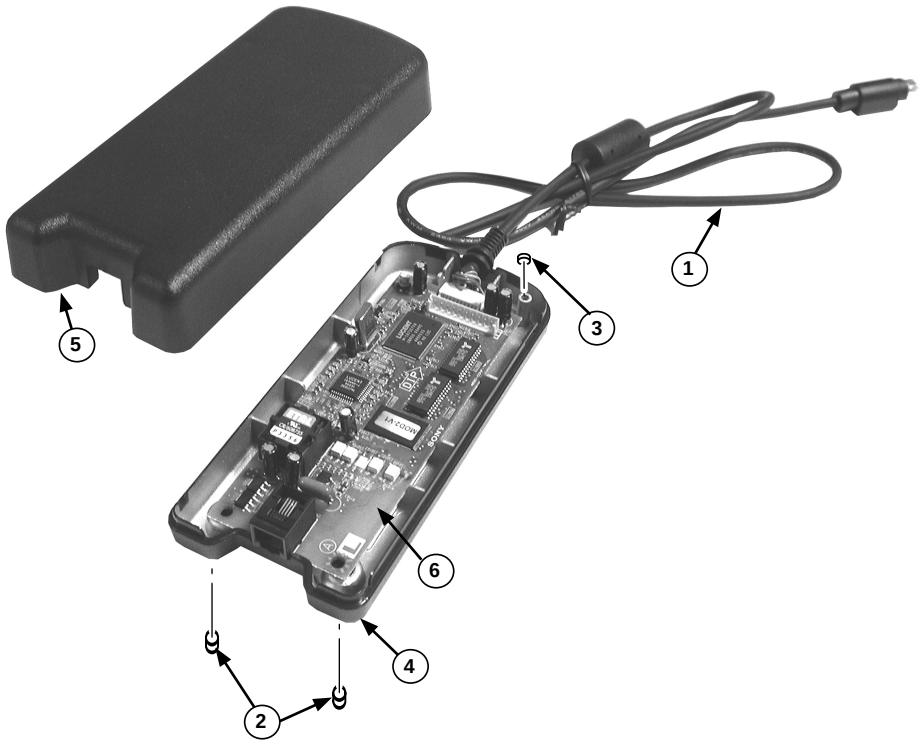
Note : Les composants indentifies par une trame et par une marque ⚠ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-5. MODEM KD-32NS100B



REF.NO.	PART.NO	DESCRIPTION	REMARK
1	1-823-154-11	CABLE	
2	4-039-356-01	SCREW (3X12), (+) BV TAPPING	
3	4-039-357-01	SCREW (3X8), (+) BV TAPPING	
4	4-205-220-11	MODEM, BASE	
5	4-205-221-11	MODEM, COVER	
6	*A-1646-258-A	MOUNTED PC BOARD, L	

SECTION 7
ELECTRICAL PARTS LIST

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Note : Refer to the designated variant parts list when seeking a part indicated by an asterisk (*)
Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK

*A-1624-085-A F3 Board, Complete (KD-32DX100)

		< CONNECTOR >	
CN7700	⚠ *1-695-292-11	PIN, CONNECTOR (POWER)	
CN7733	⚠ *1-580-844-11	PIN, CONNECTOR (POWER)	
		< SWITCH >	
S7751	⚠ 1-571-433-31	SWITCH, PUSH (AC POWER)	

*A-1646-210-A H5 Board, Complete (KD-32DX100)

		< CAPACITOR >	
C7900	1-101-810-00	CERAMIC 100PF	5.00% 500V
C7901	1-101-810-00	CERAMIC 100PF	5.00% 500V
C7925	1-137-372-11	MYLAR 0.022UF	5.00% 50V
C7926	1-137-372-11	MYLAR 0.022UF	5.00% 50V
		< CONNECTOR >	
CN7102	*1-564-518-11	PLUG, CONNECTOR 3P	
CN7103	*1-564-526-11	PLUG, CONNECTOR 11P	
		< JACK >	
J7900	1-794-442-11	TERMINAL BLOCK (LIGHT ANGLE),S	
J7925	1-785-448-11	JACK	
		< COIL >	
L7925	1-414-183-41	INDUCTOR 10UH	
L7926	1-414-183-41	INDUCTOR 10UH	
		< RESISTOR >	
R7100	1-249-425-11	CARBON 4.7K 5%	1/4W
R7101	1-249-429-11	CARBON 10K 5%	1/4W
R7102	1-249-421-11	CARBON 2.2K 5%	1/4W
R7103	1-249-429-11	CARBON 10K 5%	1/4W
R7104	1-249-425-11	CARBON 4.7K 5%	1/4W
R7105	1-249-421-11	CARBON 2.2K 5%	1/4W
R7900	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7901	1-249-417-11	CARBON 1K 5%	1/4W
R7902	1-247-895-91	CARBON 470K 5%	1/4W
R7903	1-247-895-91	CARBON 470K 5%	1/4W
R7904	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7905	1-249-417-11	CARBON 1K 5%	1/4W
R7906	1-535-143-61	LEAD, JUMPER (5.0MM)	
		< SWITCH >	
S7100	1-771-947-11	SWITCH, TACTILE	
S7101	1-771-947-11	SWITCH, TACTILE	
S7102	1-771-947-11	SWITCH, TACTILE	

*A-1646-259-A H6 Board, Complete (KD-32DX100)

		< CAPACITOR >	
C7150	1-126-969-11	ELECT 220UF	20.00% 50V
		< CONNECTOR >	
CN7100	*1-564-519-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D7150	8-719-081-56	DIODE L-59SRSGC-CC	
	4-205-711-01	HOLDER LED (D7150)	
		< IC >	
IC7150	8-749-014-59	IC TSOP1740KS1	
		< TRANSISTOR >	
Q7150	8-729-029-56	TRANSISTOR DTA144ESA	
Q7151	8-729-029-66	TRANSISTOR DTC114ESA	
		< RESISTOR >	
R7150	1-249-409-11	CARBON 220 5%	1/4W
R7151	1-249-411-11	CARBON 330 5%	1/4W
R7152	1-249-437-11	CARBON 47K 5%	1/4W
R7153	1-249-389-11	CARBON 4.7 5%	1/4W
R7154	1-249-385-11	CARBON 2.2 5%	1/4W
R7155	1-247-807-31	CARBON 100 5%	1/4W
R7156	1-249-411-11	CARBON 330 5%	1/4W

*A-1620-152-A B4 Board, Complete

		< CAPACITOR >	
C333	1-216-295-91	SHORT 0	
C368	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C369	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C372	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C373	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C374	1-126-603-11	ELECT CHIP 4.7UF	20.00% 35V
C375	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C376	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C377	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C378	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C501	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C502	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C503	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C505	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C507	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C509	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C510	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C511	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C512	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C514	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C515	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C516	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C517	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C518	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C519	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C520	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C521	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C522	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C523	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C524	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C525	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C526	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C527	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C528	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C529	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C531	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C533	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C535	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C536	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C537	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C538	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C539	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C540	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C542	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C543	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C545	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C546	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C548	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C549	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C550	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C551	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C554	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C555	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C556	1-126-392-11	ELECT CHIP 100UF	20.00% 6.3V
C557	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C559	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C560	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C601	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C602	1-126-394-11	ELECT CHIP 10UF	20.00% 16V
C603	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C604	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C605	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C606	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C607	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C608	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C609	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C610	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C611	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C612	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C613	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C614	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C615	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C616	1-126-396-11	ELECT CHIP 47UF	20.00% 16V
C617	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C618	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C619	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C620	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C621	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C622	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C623	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C624	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C625	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C626	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C627	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C628	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C629	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C630	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C631	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C632	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C633	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C634	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C635	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C636	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C637	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C638	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C639	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C640	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C642	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C643	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C644	1-126-603-11	ELECT CHIP 4.7UF	20.00% 35V
C646	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C740	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C741	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C742	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C743	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C744	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C745	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C746	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C747	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C748	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C749	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C750	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C751	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C752	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C753	1-126-204-11	ELECT CHIP 47UF	20.00% 16V
C770	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C771	1-124-779-00	ELECT CHIP 10UF	20.00% 16V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C801	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C802	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C803	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C804	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C806	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C807	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C808	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C809	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C810	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C811	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C812	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C813	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C814	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C815	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C816	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C817	1-162-916-91	CERAMIC CHIP 12PF	5.00% 50V
C818	1-162-916-91	CERAMIC CHIP 12PF	5.00% 50V
C819	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C820	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C822	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C823	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C824	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C827	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C829	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C834	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C835	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C839	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C840	1-126-206-11	ELECT CHIP 100UF	20.00% 6.3V
C841	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C842	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C843	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C844	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C848	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C849	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C850	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C851	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C915	1-162-927-91	CERAMIC CHIP 100PF	5.00% 50V
C916	1-162-927-91	CERAMIC CHIP 100PF	5.00% 50V
C917	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V
		< CONNECTOR >	
CN502	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
CN503	1-784-378-21	CONNECTOR, FFC/FPC 20P	
		< DIODE >	
D501	8-719-083-58	DIODE UDZSTE-173.9B	
		< FERRITE BEAD >	
FB501	1-414-235-22	FERRITE 0UH	
FB502	1-414-235-22	FERRITE 0UH	
FB503	1-414-235-22	FERRITE 0UH	
FB504	1-414-235-22	FERRITE 0UH	
FB601	1-414-766-22	FERRITE 0UH	
FB702	1-414-766-22	FERRITE 0UH	
FB703	1-414-766-22	FERRITE 0UH	
FB801	1-414-766-22	FERRITE 0UH	
FB802	1-414-766-22	FERRITE 0UH	
		< FILTER >	
FL306	1-239-558-11	FILTER, CHIP EMI	
FL501	1-233-877-11	FILTER, LOW PASS	
FL502	1-233-504-21	FILTER, LOW PASS	
FL503	1-233-504-21	FILTER, LOW PASS	
FL504	1-234-177-21	FILTER, CHIP EMI	
FL505	1-234-177-21	FILTER, CHIP EMI	
FL506	1-234-177-21	FILTER, CHIP EMI	
FL508	1-234-177-21	FILTER, CHIP EMI	
FL509	1-234-177-21	FILTER, CHIP EMI	
FL510	1-234-177-21	FILTER, CHIP EMI	
FL511	1-234-177-21	FILTER, CHIP EMI	
FL512	1-234-177-21	FILTER, CHIP EMI	
FL601	1-234-177-21	FILTER, CHIP EMI	
FL602	1-234-177-21	FILTER, CHIP EMI	
FL603	1-234-177-21	FILTER, CHIP EMI	
FL606	1-239-560-11	FILTER, CHIP EMI	
FL710	1-234-177-21	FILTER, CHIP EMI	
FL711	1-239-560-11	FILTER, CHIP EMI	
FL801	1-234-177-21	FILTER, CHIP EMI	
FL802	1-234-177-21	FILTER, CHIP EMI	
FL803	1-234-177-21	FILTER, CHIP EMI	
FL804	1-234-177-21	FILTER, CHIP EMI	
FL806	1-234-177-21	FILTER, CHIP EMI	
FL807	1-234-177-21	FILTER, CHIP EMI	
FL808	1-234-177-21	FILTER, CHIP EMI	
FL901	1-234-712-21	FILTER, LOW PASS	
FL902	1-234-112-21	FILTER, LOW PASS	
FL903	1-234-112-21	FILTER, LOW PASS	
		< IC >	
IC313	8-759-669-75	IC TLC2932IPWR	
IC314	8-759-525-10	IC TC7SET08F(TE85L)	
IC315	8-759-525-10	IC TC7SET08F(TE85L)	
IC316	8-759-525-10	IC TC7SET08F(TE85L)	
IC501	8-759-447-90	IC TLC5733AIPM	
IC504	8-759-669-78	IC TLC2933IPWR-12	
IC505	8-759-640-16	IC TC7SET04F(TE85R)	

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC506	8-759-640-16	IC TC7SET04F(TE85R)	
IC601	8-752-409-78	IC CXD2095AQ	
IC602	8-759-641-60	IC MT47LC1M16A1TG-7S	
IC603	8-759-669-75	IC TLC2932IPWR	
IC710	6-700-797-01	IC CXD9666Q	
IC801	8-759-672-57	IC CXD9509AQ	
IC802	8-759-677-37	IC MT48LC2M32B2TG-6	
		< COIL >	
L304	1-412-029-11	INDUCTOR 10UH	
L305	1-412-029-11	INDUCTOR 10UH	
L501	1-412-026-11	INDUCTOR 1UH	
L502	1-412-026-11	INDUCTOR 1UH	
L503	1-412-026-11	INDUCTOR 1UH	
L504	1-412-026-11	INDUCTOR 1UH	
L505	1-412-029-11	INDUCTOR 10UH	
L506	1-412-026-11	INDUCTOR 1UH	
L508	1-412-029-11	INDUCTOR 10UH	
L509	1-412-029-11	INDUCTOR 10UH	
L511	1-412-026-11	INDUCTOR 1UH	
L512	1-412-026-11	INDUCTOR 1UH	
L604	1-412-029-11	INDUCTOR 10UH	
L605	1-412-029-11	INDUCTOR 10UH	
L700	1-412-029-11	INDUCTOR 10UH	
L701	1-412-029-11	INDUCTOR 10UH	
		< TRANSISTOR >	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q501	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q502	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q510	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q511	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q512	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q514	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q515	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q516	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q517	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q518	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q519	1-801-806-11	TRANSISTOR DTC144EKA	
Q521	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q522	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q523	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q524	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q601	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q602	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q700	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q701	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q702	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q901	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q902	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q903	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q904	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q905	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
		< RESISTOR >	
R310	1-216-009-91	RES-CHIP 22 5% 1/10W	
R334	1-216-295-91	SHORT 0	
R339	1-216-295-91	SHORT 0	
R350	1-216-295-91	SHORT 0	
R361	1-216-827-11	RES-CHIP 3.3K 5% 1/16W	
R362	1-216-825-11	RES-CHIP 2.2K 5% 1/16W	
R363	1-216-037-00	RES-CHIP 330 5% 1/10W	
R364	1-216-295-91	SHORT 0	
R365	1-216-820-11	RES-CHIP 820 5% 1/16W	
R366	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R367	1-216-855-11	RES-CHIP 680K 5% 1/16W	
R368	1-216-855-11	RES-CHIP 680K 5% 1/16W	
R369	1-216-295-91	SHORT 0	
R371	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R372	1-216-009-91	RES-CHIP 22 5% 1/10W	
R373	1-216-066-00	RES-CHIP 5.1K 5% 1/10W	
R501	1-216-809-11	RES-CHIP 100 5% 1/16W	
R502	1-216-809-11	RES-CHIP 100 5% 1/16W	
R503	1-216-295-91	SHORT 0	
R504	1-216-295-91	SHORT 0	
R505	1-216-295-91	SHORT 0	
R506	1-216-025-11	RES-CHIP 100 5% 1/10W	
R507	1-216-025-11	RES-CHIP 100 5% 1/10W	
R508	1-216-809-11	RES-CHIP 100 5% 1/16W	
R509	1-216-809-11	RES-CHIP 100 5% 1/16W	
R510	1-216-818-11	RES-CHIP 560 5% 1/16W	
R511	1-216-818-11	RES-CHIP 560 5% 1/16W	
R512	1-216-818-11	RES-CHIP 560 5% 1/16W	
R513	1-216-818-11	RES-CHIP 560 5% 1/16W	
R514	1-216-818-11	RES-CHIP 560 5% 1/16W	
R515	1-216-818-11	RES-CHIP 560 5% 1/16W	
R516	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R517	1-216-821-11	RES-CHIP 1K 5% 1/16W	
R518	1-216-295-91	SHORT 0	
R520	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R521	1-216-295-91	SHORT 0	
R523	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R524	1-216-295-91	SHORT 0	
R526	1-208-776-11	METAL CHIP 560 0.5% 1/10W	
R528	1-216-037-00	RES-CHIP 330 5% 1/10W	
R529	1-218-865-91	METAL CHIP 5.6K 0.5% 1/10W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R530	1-218-865-91	METAL CHIP	5.6K	0.5%	1/10W
R531	1-216-812-11	RES-CHIP	180	5%	1/16W
R532	1-218-865-91	METAL CHIP	5.6K	0.5%	1/10W
R533	1-216-812-11	RES-CHIP	180	5%	1/16W
R534	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R535	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R536	1-216-821-11	RES-CHIP	1K	5%	1/16W
R537	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R540	1-216-821-11	RES-CHIP	1K	5%	1/16W
R548	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R549	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R550	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R551	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R552	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R553	1-216-295-91	SHORT	0		
R554	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R555	1-216-077-91	RES-CHIP	15K	5%	1/10W
R557	1-216-821-11	RES-CHIP	1K	5%	1/16W
R558	1-216-809-11	RES-CHIP	100	5%	1/16W
R559	1-216-077-91	RES-CHIP	15K	5%	1/10W
R560	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R561	1-216-818-11	RES-CHIP	560	5%	1/16W
R562	1-216-818-11	RES-CHIP	560	5%	1/16W
R563	1-216-818-11	RES-CHIP	560	5%	1/16W
R564	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R565	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R566	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R569	1-216-295-91	SHORT	0		
R571	1-216-295-91	SHORT	0		
R572	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R575	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R576	1-208-756-11	METAL CHIP	82	0.5%	1/10W
R577	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R578	1-208-750-11	METAL CHIP	47	0.5%	1/10W
R579	1-216-835-11	RES-CHIP	15K	5%	1/16W
R580	1-216-295-91	SHORT	0		
R582	1-216-817-11	RES-CHIP	470	5%	1/16W
R584	1-216-817-11	RES-CHIP	470	5%	1/16W
R586	1-216-821-11	RES-CHIP	1K	5%	1/16W
R587	1-216-821-11	RES-CHIP	1K	5%	1/16W
R589	1-216-821-11	RES-CHIP	1K	5%	1/16W
R590	1-216-821-11	RES-CHIP	1K	5%	1/16W
R591	1-216-821-11	RES-CHIP	1K	5%	1/16W
R592	1-216-821-11	RES-CHIP	1K	5%	1/16W
R594	1-216-817-11	RES-CHIP	470	5%	1/16W
R596	1-216-821-11	RES-CHIP	1K	5%	1/16W
R597	1-216-833-11	RES-CHIP	10K	5%	1/16W
R600	1-216-066-00	RES-CHIP	5.1K	5%	1/10W
R601	1-216-073-91	RES-CHIP	10K	5%	1/10W
R602	1-216-073-91	RES-CHIP	10K	5%	1/10W
R603	1-216-073-91	RES-CHIP	10K	5%	1/10W
R604	1-216-813-11	RES-CHIP	220	5%	1/16W
R605	1-216-295-91	SHORT	0		
R608	1-216-295-91	SHORT	0		
R610	1-216-813-11	RES-CHIP	220	5%	1/16W
R616	1-216-833-11	RES-CHIP	10K	5%	1/16W
R617	1-216-295-91	SHORT	0		
R618	1-216-295-91	SHORT	0		
R619	1-216-833-11	RES-CHIP	10K	5%	1/16W
R628	1-216-295-91	SHORT	0		
R629	1-216-833-11	RES-CHIP	10K	5%	1/16W
R631	1-216-295-91	SHORT	0		
R634	1-216-295-91	SHORT	0		
R635	1-216-295-91	SHORT	0		
R638	1-216-295-91	SHORT	0		
R639	1-216-021-00	RES-CHIP	68	5%	1/10W
R640	1-216-801-11	RES-CHIP	22	5%	1/16W
R642	1-216-295-91	SHORT	0		
R643	1-216-295-91	SHORT	0		
R645	1-216-295-91	SHORT	0		
R652	1-216-295-91	SHORT	0		
R653	1-216-025-11	RES-CHIP	100	5%	1/10W
R654	1-216-813-11	RES-CHIP	220	5%	1/16W
R655	1-216-295-91	SHORT	0		
R657	1-216-801-11	RES-CHIP	22	5%	1/16W
R658	1-216-821-11	RES-CHIP	1K	5%	1/16W
R659	1-216-025-11	RES-CHIP	100	5%	1/10W
R660	1-216-809-11	RES-CHIP	100	5%	1/16W
R661	1-216-809-11	RES-CHIP	100	5%	1/16W
R664	1-216-801-11	RES-CHIP	22	5%	1/16W
R665	1-216-035-00	RES-CHIP	270	5%	1/10W
R666	1-216-646-11	METAL CHIP	620	0.5%	1/10W
R667	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R668	1-216-009-91	RES-CHIP	22	5%	1/10W
R670	1-216-295-91	SHORT	0		
R671	1-216-833-11	RES-CHIP	10K	5%	1/16W
R672	1-216-833-11	RES-CHIP	10K	5%	1/16W
R673	1-216-833-11	RES-CHIP	10K	5%	1/16W
R674	1-216-833-11	RES-CHIP	10K	5%	1/16W
R675	1-216-833-11	RES-CHIP	10K	5%	1/16W
R676	1-216-833-11	RES-CHIP	10K	5%	1/16W
R677	1-216-833-11	RES-CHIP	10K	5%	1/16W
R678	1-216-833-11	RES-CHIP	10K	5%	1/16W
R679	1-216-833-11	RES-CHIP	10K	5%	1/16W
R680	1-216-833-11	RES-CHIP	10K	5%	1/16W
R681	1-216-833-11	RES-CHIP	10K	5%	1/16W
R682	1-216-833-11	RES-CHIP	10K	5%	1/16W
R683	1-216-833-11	RES-CHIP	10K	5%	1/16W
R684	1-216-833-11	RES-CHIP	10K	5%	1/16W
R685	1-216-833-11	RES-CHIP	10K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R686	1-216-833-11	RES-CHIP	10K	5%	1/16W
R687	1-216-295-91	SHORT	0		
R688	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R689	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R690	1-216-295-91	SHORT	0		
R691	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R692	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R693	1-216-009-91	RES-CHIP	22	5%	1/10W
R694	1-216-295-91	SHORT	0		
R695	1-216-820-11	RES-CHIP	820	5%	1/16W
R696	1-216-821-11	RES-CHIP	1K	5%	1/16W
R697	1-216-855-11	RES-CHIP	680K	5%	1/16W
R698	1-216-855-11	RES-CHIP	680K	5%	1/16W
R699	1-216-295-91	SHORT	0		
R710	1-216-009-91	RES-CHIP	22	5%	1/10W
R711	1-216-295-91	SHORT	0		
R712	1-216-295-91	SHORT	0		
R713	1-216-295-91	SHORT	0		
R714	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R715	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R716	1-218-831-91	METAL CHIP	220	5%	1/10W
R717	1-218-831-91	METAL CHIP	220	5%	1/10W
R718	1-218-831-91	METAL CHIP	220	5%	1/10W
R719	1-216-809-11	RES-CHIP	100	5%	1/16W
R720	1-216-809-11	RES-CHIP	100	5%	1/16W
R721	1-216-809-11	RES-CHIP	100	5%	1/16W
R722	1-216-821-11	RES-CHIP	1K	5%	1/16W
R723	1-216-821-11	RES-CHIP	1K	5%	1/16W
R724	1-216-821-11	RES-CHIP	1K	5%	1/16W
R725	1-218-831-91	METAL CHIP	220	5%	1/10W
R726	1-218-831-91	METAL CHIP	220	5%	1/10W
R727	1-218-831-91	METAL CHIP	220	5%	1/10W
R728	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R729	1-208-785-11	METAL CHIP	1.3K	0.5%	1/10W
R730	1-216-025-11	RES-CHIP	100	5%	1/10W
R731	1-216-809-11	RES-CHIP	100	5%	1/16W
R732	1-216-809-11	RES-CHIP	100	5%	1/16W
R733	1-216-809-11	RES-CHIP	100	5%	1/16W
R734	1-216-025-11	RES-CHIP	100	5%	1/10W
R735	1-216-809-11	RES-CHIP	100	5%	1/16W
R736	1-216-025-11	RES-CHIP	100	5%	1/10W
R737	1-216-025-11	RES-CHIP	100	5%	1/10W
R738	1-216-801-11	RES-CHIP	22	5%	1/16W
R739	1-216-801-11	RES-CHIP	22	5%	1/16W
R801	1-216-805-11	RES-CHIP	47	5%	1/16W
R804	1-216-833-11	RES-CHIP	10K	5%	1/16W
R806	1-218-865-91	METAL CHIP	5.6K	0.5%	1/10W
R807	1-218-843-91	METAL CHIP	680	5%	1/10W
R813	1-216-295-91	SHORT	0		
R814	1-216-833-11	RES-CHIP	10K	5%	1/16W
R815	1-216-833-11	RES-CHIP	10K	5%	1/16W
R816	1-216-833-11	RES-CHIP	10K	5%	1/16W
R817	1-216-017-91	RES-CHIP	47	5%	1/10W
R823	1-216-073-91	RES-CHIP	10K	5%	1/10W
R824	1-216-073-91	RES-CHIP	10K	5%	1/10W
R825	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R826	1-208-758-11	METAL CHIP	100	0.5%	1/10W
R827	1-216-607-11	METAL CHIP	15	0.5%	1/10W
R831	1-216-295-91	SHORT	0		
R832	1-216-295-91	SHORT	0		
R833	1-216-295-91	SHORT	0		
R834	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R835	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R836	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R844	1-216-017-91	RES-CHIP	47	5%	1/10W
R845	1-216-805-11	RES-CHIP	47	5%	1/16W
R846	1-216-805-11	RES-CHIP	47	5%	1/16W
R847	1-216-017-91	RES-CHIP	47	5%	1/10W
R848	1-216-805-11	RES-CHIP	47	5%	1/16W
R849	1-216-017-91	RES-CHIP	47	5%	1/10W
R850	1-216-805-11	RES-CHIP	47	5%	1/16W
R851	1-216-017-91	RES-CHIP	47	5%	1/10W
R852	1-216-801-11	RES-CHIP	22	5%	1/16W
R853	1-216-801-11	RES-CHIP	22	5%	1/16W
R854	1-216-009-91	RES-CHIP	22	5%	1/10W
R855	1-216-801-11	RES-CHIP	22	5%	1/16W
R856	1-216-009-91	RES-CHIP	22	5%	1/10W
R857	1-216-801-11	RES-CHIP	22	5%	1/16W
R858	1-216-009-91	RES-CHIP	22	5%	1/10W
R859	1-216-801-11	RES-CHIP	22	5%	1/16W
R860	1-216-009-91	RES-CHIP	22	5%	1/10W
R861	1-216-801-11	RES-CHIP	22	5%	1/16W
R862	1-216-009-91	RES-CHIP	22	5%	1/10W
R863	1-216-801-11	RES-CHIP	22	5%	1/16W
R864	1-216-805-11	RES-CHIP	47	5%	1/16W
R865	1-216-017-91	RES-CHIP	47	5%	1/10W
R866	1-216-805-11	RES-CHIP	47	5%	1/16W
R867	1-216-017-91	RES-CHIP	47	5%	1/10W
R868	1-216-805-11	RES-CHIP	47	5%	1/16W
R869	1-216-017-91	RES-CHIP	47	5%	1/10W
R870	1-216-805-11	RES-CHIP	47	5%	1/16W
R871	1-216-017-91	RES-CHIP	47	5%	1/10W
R872	1-216-017-91	RES-CHIP	47	5%	1/10W
R873	1-216-805-11	RES-CHIP	47	5%	1/16W
R874	1-216-017-91	RES-CHIP	47	5%	1/10W
R875	1-216-805-11	RES-CHIP	47	5%	1/16W
R876	1-216-017-91	RES-CHIP	47	5%	1/10W
R877	1-216-805-11	RES-CHIP	47	5%	1/16W
R878	1-216-017-91	RES-CHIP	47	5%	1/10W
R879	1-216-805-11	RES-CHIP	47	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R880	1-216-801-11	RES-CHIP	22	5%	1/16W
R881	1-216-009-91	RES-CHIP	22	5%	1/10W
R882	1-216-801-11	RES-CHIP	22	5%	1/16W
R883	1-216-009-91	RES-CHIP	22	5%	1/10W
R884	1-216-801-11	RES-CHIP	22	5%	1/16W
R885	1-216-009-91	RES-CHIP	22	5%	1/10W
R886	1-216-801-11	RES-CHIP	22	5%	1/16W
R887	1-216-009-91	RES-CHIP	22	5%	1/10W
R888	1-216-009-91	RES-CHIP	22	5%	1/10W
R889	1-216-295-91	SHORT	0		
R890	1-216-801-11	RES-CHIP	22	5%	1/16W
R891	1-216-017-91	RES-CHIP	47	5%	1/10W
R892	1-216-017-91	RES-CHIP	47	5%	1/10W
R893	1-216-805-11	RES-CHIP	47	5%	1/16W
R894	1-216-805-11	RES-CHIP	47	5%	1/16W
R895	1-216-017-91	RES-CHIP	47	5%	1/10W
R896	1-216-805-11	RES-CHIP	47	5%	1/16W
R897	1-216-805-11	RES-CHIP	47	5%	1/16W
R898	1-216-017-91	RES-CHIP	47	5%	1/10W
R907	1-218-855-91	METAL CHIP	2.2K	5%	1/10W
R908	1-218-855-91	METAL CHIP	2.2K	5%	1/10W
R909	1-218-855-91	METAL CHIP	2.2K	5%	1/10W
R910	1-216-821-11	RES-CHIP	1K	5%	1/16W
R911	1-216-821-11	RES-CHIP	1K	5%	1/16W
R912	1-216-821-11	RES-CHIP	1K	5%	1/16W
R914	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R916	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R917	1-216-295-91	SHORT	0		
R919	1-216-295-91	SHORT	0		
R940	1-216-295-91	SHORT	0		
R941	1-216-295-91	SHORT	0		
R942	1-216-037-00	RES-CHIP	330	5%	1/10W
R943	1-216-033-00	RES-CHIP	220	5%	1/10W
R951	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R952	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R956	1-216-841-11	RES-CHIP	47K	5%	1/16W
R979	1-216-295-91	SHORT	0		
R981	1-216-815-11	RES-CHIP	330	5%	1/16W
R982	1-216-815-11	RES-CHIP	330	5%	1/16W
R983	1-216-841-11	RES-CHIP	47K	5%	1/16W
R984	1-216-061-91	RES-CHIP	3.3K	5%	1/10W
R985	1-216-853-11	RES-CHIP	470K	5%	1/16W
R986	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R987	1-216-821-11	RES-CHIP	1K	5%	1/16W
R988	1-216-033-00	RES-CHIP	220	5%	1/10W
R989	1-216-837-11	RES-CHIP	22K	5%	1/16W
R990	1-216-853-11	RES-CHIP	470K	5%	1/16W
R991	1-216-295-91	SHORT	0		
R993	1-216-841-11	RES-CHIP	47K	5%	1/16W
R994	1-216-033-00	RES-CHIP	220	5%	1/10W
R995	1-216-813-11	RES-CHIP	220	5%	1/16W
R996	1-216-815-11	RES-CHIP	330	5%	1/16W
R2801	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2802	1-208-754-11	METAL CHIP	68	0.5%	1/10W
R2803	1-216-603-11	METAL CHIP	10	0.5%	1/10W
R2804	1-208-760-11	METAL CHIP	120	0.5%	1/10W
R2805	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R2806	1-211-960-11	METAL CHIP	22	0.5%	1/10W
R2807	1-216-295-91	SHORT	0		
R2808	1-216-295-91	SHORT	0		
R2813	1-216-295-91	SHORT	0		
R2815	1-216-295-91	SHORT	0		
R2817	1-216-295-91	SHORT	0		
R2818	1-216-295-91	SHORT	0		
R2822	1-216-295-91	SHORT	0		
RB001	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB002	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB003	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB004	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB005	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB006	1-239-412-11	NETWORK RESISTOR (CHIP)			100
RB013	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB014	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB015	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB016	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB017	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB018	1-239-621-11	NETWORK RESISTOR (CHIP)			22
RB019	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB020	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB021	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB022	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB023	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB024	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB025	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB026	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB027	1-239-409-11	NETWORK RESISTOR (CHIP)			47
RB710	*1-233-813-11	RES, NETWORK 150			(3216)
RB711	*1-233-813-11	RES, NETWORK 150			(3216)
RB712	*1-233-813-11	RES, NETWORK 150			(3216)
RB713	*1-233-813-11	RES, NETWORK 150			(3216)
RB714	*1-233-813-11	RES, NETWORK 150			(3216)
RB715	*1-233-813-11	RES, NETWORK 150			(3216)

< CRYSTAL >

X802	1-795-112-21	VIBRATOR, CRYSTAL

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

F A

REF.NO.	PART.NO	DESCRIPTION	REMARK
***A-1624-110-A**	**F Board, Complete (KD-32DX100)**		
		< CONNECTOR >	
CN1001	⚠ 1-580-843-11	PIN, CONNECTOR (POWER)	
CN1002	⚠ *1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN1003	⚠ 1-695-915-11	TAB (CONTACT)	
CN1004	1-695-915-11	TAB (CONTACT)	
		< FUSE >	
F1001	⚠ 1-576-232-11	FUSE (H.B.C.) 5A/250V	
	*1-533-725-11	HOLDER, FUSE (F1001)	
		< RESISTOR >	
R1001	⚠ 1-202-719-00	SOLID 1M 20% 1/2W	
		< VARISTOR >	
VDR101	⚠ 1-803-830-11	VARISTOR (ERZV14D621)	
***A-1631-164-A**	**A Board, Complete (KD-32DX100/ KD-32NX100)**		
***A-1631-170-A**	**A Board, Complete (KD-32NS100)**		
A Board, Common Parts			
	4-201-023-01	SPACER, INSULATING	
	4-202-373-01	SPRING, IC	
	*4-206-352-01	SHEET, INSULATING	
	*4-206-387-01	SHIELD BASE, N	
	4-382-854-01	SCREW (M3X8), P, SW (+)	
		< CAPACITOR >	
C1002	1-126-935-11	ELECT 470UF 20.00% 10V	
C1003	1-126-935-11	ELECT 470UF 20.00% 10V	
C1006	1-136-495-11	FILM 0.068UF 5.00% 50V	
C1007	1-136-495-11	FILM 0.068UF 5.00% 50V	
C1008	1-104-665-11	ELECT 100UF 20.00% 25V	
C1009	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1010	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1011	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1012	1-126-935-11	ELECT 470UF 20.00% 6.3V	
C1013	1-126-935-11	ELECT 470UF 20.00% 6.3V	
C1017	1-104-661-91	ELECT 330UF 20.00% 16V	
C1018	1-162-970-11	CERAMIC CHIP 0.01UF 10.00% 25V	
C1020	1-126-933-11	ELECT 100UF 20.00% 16V	
C1022	1-162-937-11	CERAMIC CHIP 100PF 5.00% 50V	
C1023	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1024	1-126-935-11	ELECT 470UF 20.00% 10V	
C1025	1-126-935-11	ELECT 470UF 20.00% 10V	
C1028	1-104-665-11	ELECT 100UF 20.00% 25V	
C1029	1-136-495-11	FILM 0.068UF 5.00% 50V	
C1030	1-136-495-11	FILM 0.068UF 5.00% 50V	
C1031	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1032	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1033	1-126-916-11	ELECT 1000UF 20.00% 6.3V	
C1034	1-126-935-11	ELECT 470UF 20.00% 6.3V	
C1035	1-126-935-11	ELECT 470UF 20.00% 6.3V	
C1036	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1037	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1038	1-104-665-11	ELECT 100UF 20.00% 25V	
C1039	1-104-665-11	ELECT 100UF 20.00% 25V	
C1040	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1041	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1043	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C1044	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C1045	1-104-665-11	ELECT 100UF 20.00% 25V	
C1046	1-104-665-11	ELECT 100UF 20.00% 25V	
C1054	1-126-964-11	ELECT 10UF 20.00% 50V	
C1055	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C1056	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C1057	1-126-933-11	ELECT 100UF 20.00% 16V	
C1201	1-115-340-11	CERAMIC CHIP 0.22UF 10.00% 25V	
C1202	1-126-947-11	ELECT 47UF 20.00% 25V	
C1203	1-136-175-00	FILM 0.68UF 5.00% 50V	
C1204	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1205	1-126-943-11	ELECT 2200UF 20.00% 25V	
C1206	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1207	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1208	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1209	1-163-135-00	CERAMIC CHIP 560PF 5.00% 50V	
C1210	1-126-965-91	ELECT 22UF 20.00% 50V	
C1211	1-115-339-11	CERAMIC CHIP 0.1UF 10.00% 50V	
C1212	1-115-339-11	CERAMIC CHIP 0.1UF 10.00% 50V	
C1213	1-126-965-91	ELECT 22UF 20.00% 50V	
C1214	1-115-339-11	CERAMIC CHIP 0.1UF 10.00% 50V	
C1215	1-162-966-11	CERAMIC CHIP 0.0022UF 10.00% 50V	
C1216	1-162-927-11	CERAMIC CHIP 100PF 5.00% 50V	
C1217	1-163-021-91	CERAMIC CHIP 0.01UF 10.00% 50V	
C1218	1-164-505-11	CERAMIC CHIP 2.2UF 16V	
C1219	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1220	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1222	1-130-777-00	MYLAR 0.1UF 5.00% 63V	
C1223	1-126-952-11	ELECT 1000UF 20.00% 35V	
C1224	1-111-216-91	ELECT 150UF 20.00% 63V	
C1225	1-164-222-91	CERAMIC CHIP 0.22UF 25V	
C1226	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1227	1-126-952-11	ELECT 1000UF 20.00% 35V	
C1228	1-126-961-11	ELECT 2.2UF 20.00% 50V	
C1229	1-126-944-11	ELECT 3300UF 20.00% 25V	
C1230	1-164-004-11	CERAMIC CHIP 0.1UF 10.00% 25V	
C1231	1-162-966-11	CERAMIC CHIP 0.0022UF 10.00% 50V	
C1232	1-126-947-11	ELECT 47UF 20.00% 25V	

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1233	1-164-346-11	CERAMIC CHIP 1UF	16V
C1234	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1235	1-164-346-11	CERAMIC CHIP 1UF	16V
C1236	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C1237	1-126-944-11	ELECT 3300UF	20.00% 25V
C1238	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1239	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C1242	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C1245	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1247	1-126-964-11	ELECT 10UF	20.00% 50V
C1249	1-126-964-11	ELECT 10UF	20.00% 50V
C1250	1-126-947-11	ELECT 47UF	20.00% 25V
C1251	1-163-107-00	CERAMIC CHIP 39PF	5.00% 50V
C1252	1-126-947-11	ELECT 47UF	20.00% 25V
C1254	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C1255	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1256	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1257	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1258	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1264	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C1265	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C1270	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1271	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1273	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1274	1-163-241-11	CERAMIC CHIP 39PF	5.00% 50V
C1275	1-104-665-11	ELECT 100UF	20.00% 25V
C1276	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1277	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1278	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1281	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1282	1-126-964-11	ELECT 10UF	20.00% 50V
C1283	1-126-947-11	ELECT 47UF	20.00% 16V
C1284	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1285	1-164-506-11	CERAMIC CHIP 4.7UF	16V
C1286	1-126-947-11	ELECT 47UF	20.00% 16V
C1287	1-126-947-11	ELECT 47UF	20.00% 16V
C1288	1-126-947-11	ELECT 47UF	20.00% 16V
C1289	1-126-947-11	ELECT 47UF	20.00% 16V
C1290	1-164-506-11	CERAMIC CHIP 4.7UF	16V
C1401	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1402	1-104-665-11	ELECT 100UF	20.00% 25V
C1403	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1404	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1405	1-104-665-11	ELECT 100UF	20.00% 25V
C1406	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1407	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1408	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1409	1-165-112-11	CERAMIC CHIP 0.33UF	16V
C1410	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1412	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1413	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1414	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1415	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1416	1-104-665-11	ELECT 100UF	20.00% 25V
C1417	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1418	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1419	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V
C1420	1-165-112-11	CERAMIC CHIP 0.33UF	16V
C1423	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1424	1-126-963-11	ELECT 4.7UF	20.00% 50V
C1426	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1430	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1431	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1432	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1434	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1436	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1437	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1438	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1439	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C1440	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1441	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1443	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1444	1-126-947-11	ELECT 47UF	20.00% 25V
C1446	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C1447	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1449	1-117-720-11	CERAMIC CHIP 4.7UF	10V
C1450	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1451	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1452	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1454	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
C1455	1-126-947-11	ELECT 47UF	20.00% 25V
C1457	1-104-665-11	ELECT 100UF	20.00% 25V
C1458	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1461	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C1462	1-126-947-11	ELECT 47UF	20.00% 25V
C1464	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1472	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1473	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1475	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1476	1-126-933-11	ELECT 100UF	20.00% 16V
C1703	1-128-527-11	ELECT 330UF	20.00% 25V
C1704	1-126-968-11	ELECT 100UF	20.00% 50V
C1705	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1706	1-137-401-11	MYLAR 0.22UF	10.00% 100V
C1707	1-102-228-00	CERAMIC 470PF	10.00% 500V
C1708	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C1709	1-129-702-00	MYLAR 0.001UF	10.00% 400V
C1710	1-130-785-11	MYLAR 0.47UF	10.00% 100V
C1711	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C1712	1-126-968-11	ELECT 100UF	20.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C1715	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1716	1-104-665-11	ELECT 100UF	20.00% 25V
C1717	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1719	1-104-665-11	ELECT 100UF	20.00% 25V
C1800	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C1801	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C1802	1-126-947-11	ELECT 47UF	20.00% 25V
C1803	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1804	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
C1805	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V
C1806	1-163-809-11	CERAMIC CHIP 0.047UF	10.00% 25V
C1807	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1808	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1814	1-126-947-11	ELECT 47UF	20.00% 25V
C1816	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C1817	1-126-964-11	ELECT 10UF	20.00% 50V
C1821	1-126-965-91	ELECT 22UF	20.00% 50V
C1822	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C1832	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1833	1-136-347-11	FILM 0.0047UF	5.00% 630V
C1837	1-136-153-00	FILM 0.01UF	5.00% 50V
C1843	1-137-499-11	FILM 0.015UF	5.00% 630V
C1850	1-126-947-11	ELECT 47UF	20.00% 25V
C1852	1-137-194-81	FILM 0.47UF	5.00% 50V
C1853	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1854	1-126-947-11	ELECT 47UF	20.00% 25V
C1855	1-126-947-11	ELECT 47UF	20.00% 25V
C1856	1-164-222-91	CERAMIC CHIP 0.22UF	25V
C1859	1-104-665-11	ELECT 100UF	20.00% 25V
C1861	1-126-941-11	ELECT 470UF	20.00% 25V
C1950	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1951	1-136-165-00	FILM 0.1UF	5.00% 50V
C1952	1-126-947-11	ELECT 47UF	20.00% 25V
C1970	1-126-964-11	ELECT 10UF	20.00% 50V
C1971	1-126-964-11	ELECT 10UF	20.00% 50V
C1972	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1974	1-126-964-11	ELECT 10UF	20.00% 50V
C1975	1-126-964-11	ELECT 10UF	20.00% 50V
C1980	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4000	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4001	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4002	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4003	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4004	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4005	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4006	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4007	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4008	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4010	1-126-933-11	ELECT 100UF	20.00% 16V
C4011	1-126-933-11	ELECT 100UF	20.00% 16V
C4013	1-104-665-11	ELECT 100UF	20.00% 25V
C4015	1-126-965-91	ELECT 22UF	20.00% 50V
C4016	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4017	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V
C4018	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4019	1-164-160-11	CERAMIC CHIP 20PF	5.00% 50V
C4020	1-110-489-11	CAPACITOR 1F	5.5V
C4021	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 16V
C4022	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C4024	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4025	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C4026	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C4027	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C4028	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C4029	1-126-964-11	ELECT 10UF	20.00% 50V
C4030	1-126-964-11	ELECT 10UF	20.00% 50V
C4038	1-126-964-11	ELECT 10UF	20.00% 50V
C4046	1-164-156-11	CERAMIC CHIP 0.1UF	25V
		< FILTER >	
CF1270	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
		< CONNECTOR >	
CN1000	1-793-494-11	CONNECTOR, BOARD TO BOARD 40P	
CN1001	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P	
CN1005	1-695-915-11	TAB (CONTACT)	
CN1006	1-695-915-11	TAB (CONTACT)	
CN1008	1-695-915-11	TAB (CONTACT)	
CN1201	*1-564-507-11	PLUG, CONNECTOR 4P	
CN1202	*1-564-507-11	PLUG, CONNECTOR 4P	
CN1203	*1-564-506-11	PLUG, CONNECTOR 3P	
CN1251	1-695-915-11	TAB (CONTACT)	
CN1602	*1-564-507-11	PLUG, CONNECTOR 4P	
CN1603	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1604	*1-764-333-11	PLUG, CONNECTOR 10P	
CN1701	1-764-334-11	PLUG, CONNECTOR 11P	
CN1702	*1-564-507-11	PLUG, CONNECTOR 4P	
CN1703	*1-564-506-11	PLUG, CONNECTOR 3P	
CN1706	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1802	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1803	*1-564-508-11	PLUG, CONNECTOR 5P	
CN1804	*1-564-511-11	PLUG, CONNECTOR 8P	
CN1805	*1-764-333-11	PLUG, CONNECTOR 10P	
CN1807	*1-564-510-11	PLUG, CONNECTOR 7P	
CN1901	*1-564-506-11	PLUG, CONNECTOR 3P	
CN1999	*1-564-520-11	PLUG, CONNECTOR 5P	
CN2000	*1-564-516-11	PLUG, CONNECTOR 13P	
CN4000	*1-794-730-11	SOCKET, PC CONNECTOR (PC BOARD	
CN4001	1-793-493-11	CONNECTOR, BOARD TO BOARD 20P	

REF.NO.	PART.NO	DESCRIPTION	REMARK
CN7107	*1-564-518-11	PLUG, CONNECTOR 3P	
CN7108	*1-564-522-11	PLUG, CONNECTOR 7P	
CN7109	1-793-495-11	CONNECTOR, BOARD TO BOARD 50P	
		< DIODE >	
D1001	8-719-500-70	DIODE D5S4M	
D1002	8-719-500-70	DIODE D5S4M	
D1003	8-719-914-43	DIODE DAN202K	
D1004	8-719-914-43	DIODE DAN202K	
D1005	8-719-500-70	DIODE D5S4M	
D1006	8-719-500-70	DIODE D5S4M	
D1007	8-719-914-44	DIODE DAP202K	
D1008	8-719-914-44	DIODE DAP202K	
D1009	8-719-069-55	DIODE UDZSTE-175.6B	
D1010	8-719-914-43	DIODE DAN202K	
D1011	8-719-069-55	DIODE UDZSTE-175.6B	
D1013	8-719-069-56	DIODE UDZSTE-176.2B	
D1014	8-719-069-56	DIODE UDZSTE-176.2B	
D1070	8-719-914-44	DIODE DAP202K	
D1201	8-719-914-43	DIODE DAN202K	
D1202	8-719-914-43	DIODE DAN202K	
D1203	8-719-914-44	DIODE DAP202K	
D1204	8-719-914-43	DIODE DAN202K	
D1205	8-719-914-43	DIODE DAN202K	
D1206	8-719-083-60	DIODE UDZS-4.7B	
D1207	8-719-421-57	DIODE MA73-TX	
D1209	8-719-069-54	DIODE UDZSTE-175.1B	
D1235	8-719-083-82	DIODE UDZS-12B	
D1236	8-719-083-82	DIODE UDZS-12B	
D1237	8-719-083-82	DIODE UDZS-12B	
D1238	8-719-083-82	DIODE UDZS-12B	
D1239	8-719-110-09	DIODE MTZJ-8.2C	
D1401	8-719-914-43	DIODE DAN202K	
D1403	8-719-914-43	DIODE DAN202K	
D1406	8-719-069-60	DIODE UDZSTE-179.1B	
D1407	8-719-914-43	DIODE DAN202K	
D1701	8-719-110-49	DIODE RD18ES-B2	
D1702	8-719-908-03	DIODE GP08D	
D1703	8-719-110-41	DIODE RD15ES-B2	
D1801	8-719-914-43	DIODE DAN202K	
D1802	8-719-914-43	DIODE DAN202K	
D1803	8-719-914-43	DIODE DAN202K	
D1804	8-719-914-43	DIODE DAN202K	
D1805	8-719-401-63	DIODE MA3062M-TX	
D1806	8-719-914-43	DIODE DAN202K	
D1807	8-719-914-43	DIODE DAN202K	
D1808	8-719-914-43	DIODE DAN202K	
D1809	8-719-987-87	DIODE ERA85-009	
D1810	8-719-991-33	DIODE 1SS133T-77	
D1811	8-719-914-43	DIODE DAN202K	
D1813	8-719-063-73	DIODE D1NL20U-TR	
D4000	8-719-982-24	DIODE MTZJ-33A	
D4001	8-719-812-43	DIODE TLG124A	
D4002	8-719-914-43	DIODE DAN202K	
		< FERRITE BEAD >	
FB1001	1-410-396-41	FERRITE 0.45UH	
FB1002	1-410-396-41	FERRITE 0.45UH	
FB1003	1-410-396-41	FERRITE 0.45UH	
FB1004	1-535-303-00	LEAD JUMPER (5.0MM)	
FB1005	1-414-766-22	FERRITE 0UH	
FB1006	1-414-766-22	FERRITE 0UH	
FB1007	1-414-766-22	FERRITE 0UH	
FB1009	1-414-766-22	FERRITE 0UH	
FB1010	1-414-766-22	FERRITE 0UH	
FB1201	1-410-397-21	FERRITE 1.1UH	
FB1202	1-410-397-21	FERRITE 1.1UH	
FB1801	1-414-234-22	FERRITE 0UH	
FB1802	1-414-234-22	FERRITE 0UH	
FB1803	1-414-234-22	FERRITE 0UH	
		< FILTER >	
FL1231	1-236-071-11	ENCAPSULATED COMPONENT	
FL1232	1-236-071-11	ENCAPSULATED COMPONENT	
FL1270	1-233-764-21	FILTER	
FL4000	1-239-899-21	FILTER, CHIP EMI	
FL4001	1-239-899-21	FILTER, CHIP EMI	
FL4002	1-239-899-21	FILTER, CHIP EMI	
FL4003	1-239-899-21	FILTER, CHIP EMI	
FL4004	1-239-899-21	FILTER, CHIP EMI	
		< IC >	
IC1001	8-759-648-20	IC L7805CV/LSY	
IC1002	8-759-640-19	IC PQ1CG2032FZ	
IC1003	8-759-640-19	IC PQ1CG2032FZ	
IC1005	8-759-450-47	IC BA05T	
IC1006	8-759-640-19	IC PQ1CG2032FZ	
IC1007	8-759-640-19	IC PQ1CG2032FZ	
IC1008	8-752-072-94	IC CXA1875AM-T4	
IC1009	8-759-648-19	IC L7809CV/LSY	
IC1102	8-759-712-65	IC PQ070XZ01ZP	
IC1201	8-759-544-25	IC TDA7482	
IC1202	8-759-333-24	IC LM1876TF	
IC1231	6-701-031-01	IC MSP3411G-QA-B10	
IC1270	8-759-701-36	IC NJM3403AM	
IC1401	8-759-998-98	IC LM358D	
IC1402	8-752-100-26	IC CXA2150AQ-TL	
IC1701	8-759-192-71	IC STV9379	
IC1801	8-759-665-11	IC LM393DT	
IC1802	8-759-998-98	IC LM358D	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

A

REF.NO.	PART.NO	DESCRIPTION	REMARK
IC1803	8-759-567-08	IC MB88141APF-ER	
IC1804	8-759-665-11	IC LM393DT	
IC1805	8-752-053-21	IC CXA1211M	
IC1808	8-759-665-11	IC LM393DT	
IC1809	8-759-903-16	IC LM318P	
IC1811	8-759-803-42	IC LA6500-FA	
IC1950	8-759-803-42	IC LA6500-FA	
IC4000	8-759-239-25	IC TC74HC4066AF	
IC4001	8-759-478-44	IC PCF8593/T118	
IC4004	8-759-544-26	IC LNBP11SP-TR	
IC4005	8-759-239-25	IC TC74HC4066AF	
		< COIL >	
L1000	1-419-249-11	INDUCTOR 15UH	
L1001	1-412-525-31	INDUCTOR 10UH	
L1002	1-412-525-31	INDUCTOR 10UH	
L1003	1-414-934-21	INDUCTOR 10UH	
L1004	1-412-525-31	INDUCTOR 10UH	
L1005	1-412-525-31	INDUCTOR 10UH	
L1006	1-419-249-11	INDUCTOR 15UH	
L1007	1-419-249-11	INDUCTOR 15UH	
L1008	1-419-249-11	INDUCTOR 15UH	
L1009	1-419-249-11	INDUCTOR 15UH	
L1010	1-419-249-11	INDUCTOR 15UH	
L1011	1-419-249-11	INDUCTOR 15UH	
L1012	1-419-249-11	INDUCTOR 15UH	
L1201	1-416-857-11	INDUCTOR 65UH	
L1202	1-414-158-11	INDUCTOR 2.2UH	
L1203	1-414-158-11	INDUCTOR 2.2UH	
L1233	1-414-934-21	INDUCTOR 10UH	
L1270	1-412-006-31	INDUCTOR 10UH	
L1272	1-408-615-31	INDUCTOR 100UH	
L1401	1-414-934-21	INDUCTOR 10UH	
L1402	1-414-934-21	INDUCTOR 10UH	
L1403	1-414-934-21	INDUCTOR 10UH	
L1404	1-414-934-21	INDUCTOR 10UH	
L1405	1-414-934-21	INDUCTOR 10UH	
L1406	1-414-934-21	INDUCTOR 10UH	
L1701	1-412-524-11	INDUCTOR 8.2UH	
L1801	1-416-920-11	INDUCTOR 10MH	
L1802	1-406-989-21	INDUCTOR 10MH	
L1803	1-414-934-21	INDUCTOR 10UH	
L1804	1-412-525-31	INDUCTOR 10UH	
L4000	1-414-742-21	INDUCTOR 22UH	
		< IC LINK >	
PS1011 ⚠	1-801-549-21	PROTECTOR, MODULE	
PS1012 ⚠	1-801-549-21	PROTECTOR, MODULE	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< TRANSISTOR >	
Q1001	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1002	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1003	8-729-027-38	TRANSISTOR DTA144EKA-T146	
Q1004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1005	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1008	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1009	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1010	8-729-028-28	TRANSISTOR 2SK2036(TE85L)	
Q1072	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1201	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1207	1-801-806-11	TRANSISTOR DTC144EKA	
Q1270	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1271	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1272	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1401	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1402	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1404	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1405	1-801-806-11	TRANSISTOR DTC144EKA	
Q1406	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1407	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1410	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1411	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1412	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1413	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1420	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1421	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1422	8-729-026-49	TRANSISTOR 2SA1037AK-T146	
Q1423	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1701	8-729-039-68	TRANSISTOR IRF620	
Q1801	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1802	1-801-806-11	TRANSISTOR DTC144EKA	
Q1803	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1804	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1805	8-729-140-93	TRANSISTOR 2SB733-34	
Q1809	8-729-046-33	TRANSISTOR IRF720-LF49	
Q1814	1-801-806-11	TRANSISTOR DTC144EKA	
Q1900	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1970	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1971	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q1972	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q4000	1-801-806-11	TRANSISTOR DTC144EKA	
Q4001	1-801-806-11	TRANSISTOR DTC144EKA	

REF.NO.	PART.NO	DESCRIPTION			REMARK
Q4002	1-801-806-11	TRANSISTOR DTC144EKA			
Q4003	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q4004	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q4005	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q4006	8-729-028-28	TRANSISTOR 2SK2036(TE85L)			
Q4017	1-801-806-11	TRANSISTOR DTC144EKA			
Q4018	1-801-806-11	TRANSISTOR DTC144EKA			
Q4124	1-801-806-11	TRANSISTOR DTC144EKA			
		< RESISTOR >			
JR1006	1-216-864-11	SHORT	0		
JR1007	1-216-864-11	SHORT	0		
JR1232	1-216-295-91	SHORT	0		
JR1233	1-216-295-91	SHORT	0		
JR1234	1-216-295-91	SHORT	0		
JR1235	1-216-295-91	SHORT	0		
JR1236	1-216-295-91	SHORT	0		
JR1237	1-216-295-91	SHORT	0		
JR1238	1-216-295-91	SHORT	0		
R1001	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1002	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1003	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1004	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R1005	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R1006	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R1007	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1008	1-216-805-11	RES-CHIP	47	5%	1/16W
R1009	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1010	1-216-805-11	RES-CHIP	47	5%	1/16W
R1011	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1012	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1013	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R1014	1-216-295-91	SHORT	0		
R1015	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1016	1-216-809-11	RES-CHIP	100	5%	1/16W
R1018	1-216-817-11	RES-CHIP	470	5%	1/16W
R1019	1-216-817-11	RES-CHIP	470	5%	1/16W
R1020	1-216-817-11	RES-CHIP	470	5%	1/16W
R1021	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1022	1-216-834-11	RES-CHIP	12K	5%	1/16W
R1023	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1024	1-216-809-11	RES-CHIP	100	5%	1/16W
R1025	1-216-817-11	RES-CHIP	470	5%	1/16W
R1026	1-216-817-11	RES-CHIP	470	5%	1/16W
R1027	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1028	1-216-797-11	RES-CHIP	10	5%	1/16W
R1029	1-216-817-11	RES-CHIP	470	5%	1/16W
R1030	1-216-818-11	RES-CHIP	560	5%	1/16W
R1031	1-216-833-11	RES-CHIP	10K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1032	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1033	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1034	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1035	1-216-650-11	METAL CHIP	910	0.5%	1/10W
R1036	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1037	1-216-652-11	METAL CHIP	1.1K	0.5%	1/10W
R1038	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W
R1039	1-216-809-11	RES-CHIP	100	5%	1/16W
R1040	1-216-809-11	RES-CHIP	100	5%	1/16W
R1041	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1042	1-216-809-11	RES-CHIP	100	5%	1/16W
R1043	1-216-809-11	RES-CHIP	100	5%	1/16W
R1044	1-216-809-11	RES-CHIP	100	5%	1/16W
R1045	1-216-809-11	RES-CHIP	100	5%	1/16W
R1046	1-216-809-11	RES-CHIP	100	5%	1/16W
R1047	1-216-864-11	SHORT	0		
R1048	1-216-295-91	SHORT	0		
R1049	1-216-809-11	RES-CHIP	100	5%	1/16W
R1050	1-216-809-11	RES-CHIP	100	5%	1/16W
R1051	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R1052	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1053	1-218-837-11	METAL CHIP	390	0.5%	1/10W
R1055	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1056	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1061	1-216-864-11	SHORT	0		
R1066	1-216-864-11	SHORT	0		
R1073	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1074	1-216-864-11	SHORT	0		
R1075	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1076	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1078	1-216-864-11	SHORT	0		
R1080	1-216-864-11	SHORT	0		
R1083	1-216-864-11	SHORT	0		
R1086	1-216-864-11	SHORT	0		
R1087	1-216-864-11	SHORT	0		
R1090	1-216-864-11	SHORT	0		
R1091	1-216-864-11	SHORT	0		
R1092	1-216-864-11	SHORT	0		
R1093	1-216-295-91	SHORT	0		
R1094	1-216-809-11	RES-CHIP	100	5%	1/16W
R1095	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1096	1-216-864-11	SHORT	0		
R1097	1-216-864-11	SHORT	0		
R1104	1-216-864-11	SHORT	0		
R1108	1-216-864-11	SHORT	0		
R1109	1-216-864-11	SHORT	0		
R1110	1-216-864-11	SHORT	0		
R1111	1-216-864-11	SHORT	0		
R1112	1-216-864-11	SHORT	0		
R1113	1-216-864-11	SHORT	0		

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1116	1-216-864-11	SHORT	0		
R1119	1-216-864-11	SHORT	0		
R1121	1-216-864-11	SHORT	0		
R1122	1-216-864-11	SHORT	0		
R1125	1-216-864-11	SHORT	0		
R1126	1-216-864-11	SHORT	0		
R1128	1-216-864-11	SHORT	0		
R1129	1-216-864-11	SHORT	0		
R1131	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1132	1-216-809-11	RES-CHIP	100	5%	1/16W
R1133	1-216-809-11	RES-CHIP	100	5%	1/16W
R1135	1-216-864-11	SHORT	0		
R1137	1-216-864-11	SHORT	0		
R1201	1-216-817-11	RES-CHIP	470	5%	1/16W
R1202	1-249-422-11	CARBON	2.7K	5%	1/4W
R1203	1-249-422-11	CARBON	2.7K	5%	1/4W
R1204	1-249-422-11	CARBON	2.7K	5%	1/4W
R1205	1-216-809-11	RES-CHIP	100	5%	1/16W
R1207	1-216-357-00	METAL OXIDE	4.7	5%	1W
R1208	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1209	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1210	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1211	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R1212	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R1213	1-216-357-00	METAL OXIDE	4.7	5%	1W
R1214	1-216-296-11	SHORT	0		
R1215	1-216-631-11	METAL CHIP	150	0.5%	1/10W
R1216	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1217	1-216-819-11	RES-CHIP	680	5%	1/16W
R1218	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1219	1-216-819-11	RES-CHIP	680	5%	1/16W
R1220	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1221	1-216-296-11	SHORT	0		
R1222	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1223	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1224	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1225	1-216-838-11	RES-CHIP	27K	5%	1/16W
R1227	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R1229	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1230	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1232	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1234	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1237	1-249-401-11	CARBON	47	5%	1/4W
R1238	1-216-295-91	SHORT	0		
R1239	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1240	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1241	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1242	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1244	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1256	1-216-829-11	RES-CHIP	4.7K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1260	1-216-809-11	RES-CHIP	100	5%	1/16W
R1261	1-216-809-11	RES-CHIP	100	5%	1/16W
R1270	1-216-815-11	RES-CHIP	330	5%	1/16W
R1272	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1273	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1274	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1275	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1276	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1277	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1278	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1279	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1280	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1281	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1283	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1284	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1286	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1287	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1288	1-216-818-11	RES-CHIP	560	5%	1/16W
R1289	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1290	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R1293	1-216-864-11	SHORT	0		
R1297	1-216-864-11	SHORT	0		
R1401	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1402	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1403	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1404	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1405	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1406	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1407	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1408	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1411	1-216-809-11	RES-CHIP	100	5%	1/16W
R1412	1-216-809-11	RES-CHIP	100	5%	1/16W
R1413	1-216-809-11	RES-CHIP	100	5%	1/16W
R1414	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R1415	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1416	1-216-835-11	RES-CHIP	15K	5%	1/16W
R1417	1-216-809-11	RES-CHIP	100	5%	1/16W
R1419	1-216-839-11	RES-CHIP	33K	5%	1/16W
R1420	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1421	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1422	1-216-817-11	RES-CHIP	470	5%	1/16W
R1425	1-216-839-11	RES-CHIP	33K	5%	1/16W
R1426	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1427	1-216-864-11	SHORT	0		
R1428	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R1429	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1431	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1432	1-216-809-11	RES-CHIP	100	5%	1/16W
R1433	1-216-864-11	SHORT	0		
R1434	1-216-825-11	RES-CHIP	2.2K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1435	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1436	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1437	1-216-809-11	RES-CHIP	100	5%	1/16W
R1438	1-216-817-11	RES-CHIP	470	5%	1/16W
R1441	1-216-295-91	SHORT	0		
R1443	1-216-809-11	RES-CHIP	100	5%	1/16W
R1444	1-216-863-11	RES-CHIP	3.3M	5%	1/16W
R1445	1-216-826-11	RES-CHIP	2.7K	5%	1/16W
R1447	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R1448	1-216-809-11	RES-CHIP	100	5%	1/16W
R1449	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1450	1-216-809-11	RES-CHIP	100	5%	1/16W
R1451	1-216-809-11	RES-CHIP	100	5%	1/16W
R1452	1-216-295-91	SHORT	0		
R1453	1-216-295-91	SHORT	0		
R1454	1-216-809-11	RES-CHIP	100	5%	1/16W
R1456	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1457	1-216-809-11	RES-CHIP	100	5%	1/16W
R1458	1-216-834-11	RES-CHIP	12K	5%	1/16W
R1459	1-216-809-11	RES-CHIP	100	5%	1/16W
R1460	1-216-809-11	RES-CHIP	100	5%	1/16W
R1461	1-216-809-11	RES-CHIP	100	5%	1/16W
R1462	1-216-809-11	RES-CHIP	100	5%	1/16W
R1463	1-216-809-11	RES-CHIP	100	5%	1/16W
R1464	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1466	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1468	1-216-864-11	SHORT	0		
R1469	1-216-809-11	RES-CHIP	100	5%	1/16W
R1470	1-216-809-11	RES-CHIP	100	5%	1/16W
R1471	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1472	1-218-271-11	RES-CHIP	2K	5%	1/16W
R1473	1-216-809-11	RES-CHIP	100	5%	1/16W
R1475	1-216-845-11	RES-CHIP	100	5%	1/16W
R1476	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1477	1-216-864-11	SHORT	0		
R1478	1-216-845-11	RES-CHIP	100	5%	1/16W
R1479	1-216-864-11	SHORT	0		
R1480	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1481	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1482	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1483	1-216-809-11	RES-CHIP	100	5%	1/16W
R1484	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1485	1-216-849-11	RES-CHIP	220K	5%	1/16W
R1486	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1487	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1488	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1489	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1490	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1491	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1492	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1493	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1494	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1495	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1496	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1497	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1499	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1501	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1519	1-216-864-11	SHORT	0		
R1521	1-216-864-11	SHORT	0		
R1522	1-216-864-11	SHORT	0		
R1701	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R1702	1-208-802-11	METAL CHIP	6.8K	0.5%	1/10W
R1703	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R1704	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R1705	1-249-383-11	CARBON	1.5	5%	1/4W
R1706	1-249-389-11	CARBON	4.7	5%	1/4W
R1707	1-247-791-91	CARBON	22	5%	1/4W
R1708	1-215-913-11	METAL OXIDE	220	5%	3W
R1709	1-214-798-21	METAL	1.8	1%	1/2W
R1710	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R1711	1-214-798-21	METAL	1.8	1%	1/2W
R1714	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1721	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1722	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1723	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1801	1-216-841-11	RES-CHIP	47K	5%	1/16W
R1802	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1803	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1804	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1805	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1806	1-216-817-11	RES-CHIP	470	5%	1/16W
R1807	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1809	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1811	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1812	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1813	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1814	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1815	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1816	1-216-809-11	RES-CHIP	100	5%	1/16W
R1817	1-216-809-11	RES-CHIP	100	5%	1/16W
R1819	1-216-809-11	RES-CHIP	100	5%	1/16W
R1820	1-216-809-11	RES-CHIP	100	5%	1/16W
R1821	1-216-809-11	RES-CHIP	100	5%	1/16W
R1823	1-216-809-11	RES-CHIP	100	5%	1/16W
R1825	1-216-809-11	RES-CHIP	100	5%	1/16W
R1826	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1829	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1830	1-216-295-91	SHORT	0		
R1831	1-216-842-11	RES-CHIP	56K	5%	1/16W
R1832	1-216-833-11	RES-CHIP	10K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1833	1-216-809-11	RES-CHIP	100	5%	1/16W
R1835	1-216-813-11	RES-CHIP	220	5%	1/16W
R1836	1-216-864-11	SHORT	0		
R1838	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R1839	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1840	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1841	1-216-813-11	RES-CHIP	220	5%	1/16W
R1842	1-216-813-11	RES-CHIP	220	5%	1/16W
R1843	1-216-813-11	RES-CHIP	220	5%	1/16W
R1844	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1847	1-216-809-11	RES-CHIP	100	5%	1/16W
R1848	1-216-809-11	RES-CHIP	100	5%	1/16W
R1852	1-215-906-11	METAL OXIDE	15	5%	3W
R1854	1-216-853-11	RES-CHIP	470K	5%	1/16W
R1855	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R1856	1-216-849-11	RES-CHIP	220K	5%	1/16W
R1861	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R1866	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1870	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R1876	1-218-873-11	METAL CHIP	12K	0.5%	1/10W
R1879	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R1882	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R1886	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1890	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1898	1-208-806-11	METAL CHIP	10K	0.5%	1/10W
R1905	1-218-756-11	METAL CHIP	150K	0.5%	1/10W
R1906	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R1909	1-208-798-11	METAL CHIP	4.7K	0.5%	1/10W
R1911	1-218-760-11	METAL CHIP	220K	0.5%	1/10W
R1916	1-216-353-00	METAL OXIDE	2.2	5%	1W
R1930	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1937	1-216-864-11	SHORT	0		
R1950	1-216-839-11	RES-CHIP	33K	5%	1/16W
R1951	1-216-821-11	RES-CHIP	1K	5%	1/16W
R1952	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R1953	1-215-867-00	METAL OXIDE	470	5%	1W
R1954	1-249-395-11	CARBON	15	5%	1/4W
R1955	1-216-818-11	RES-CHIP	560	5%	1/16W
R1956	1-249-383-11	CARBON	1.5	5%	1/4W
R1957	1-249-381-11	CARBON	1	5%	1/4W
R1968	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1969	1-216-838-11	RES-CHIP	27K	5%	1/16W
R1970	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1971	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1972	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1973	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1974	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1975	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1976	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1977	1-216-839-11	RES-CHIP	33K	5%	1/16W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R1978	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1979	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1982	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1983	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1984	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1985	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1986	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1987	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1988	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1989	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1990	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1995	1-216-843-11	RES-CHIP	68K	5%	1/16W
R1998	1-216-817-11	RES-CHIP	470	5%	1/16W
R1999	1-216-819-11	RES-CHIP	680	5%	1/16W
R4002	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4003	1-216-864-11	SHORT	0		
R4004	1-216-864-11	SHORT	0		
R4005	1-216-864-11	SHORT	0		
R4006	1-216-864-11	SHORT	0		
R4007	1-216-864-11	SHORT	0		
R4008	1-216-864-11	SHORT	0		
R4009	1-216-864-11	SHORT	0		
R4010	1-216-864-11	SHORT	0		
R4011	1-216-864-11	SHORT	0		
R4012	1-216-864-11	SHORT	0		
R4013	1-216-864-11	SHORT	0		
R4014	1-216-864-11	SHORT	0		
R4015	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4017	1-216-864-11	SHORT	0		
R4018	1-216-864-11	SHORT	0		
R4019	1-216-864-11	SHORT	0		
R4020	1-216-864-11	SHORT	0		
R4022	1-216-813-11	RES-CHIP	220	5%	1/16W
R4023	1-216-837-11	RES-CHIP	22K	5%	1/16W
R4024	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4027	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4028	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4029	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R4030	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R4031	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4032	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4035	1-216-841-11	RES-CHIP	47K	5%	1/16W
R4036	1-216-809-11	RES-CHIP	100	5%	1/16W
R4037	1-216-809-11	RES-CHIP	100	5%	1/16W
R4038	1-216-837-11	RES-CHIP	22K	5%	1/16W
R4039	1-216-809-11	RES-CHIP	100	5%	1/16W
R4040	1-216-295-91	SHORT	0		
R4041	1-216-295-91	SHORT	0		
R4042	1-216-295-91	SHORT	0		
R4043	1-216-295-91	SHORT	0		

REF.NO.	PART.NO	DESCRIPTION			REMARK
R4044	1-216-295-91	SHORT	0		
R4045	1-216-295-91	SHORT	0		
R4046	1-216-295-91	SHORT	0		
R4047	1-216-295-91	SHORT	0		
R4048	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4049	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4050	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R4051	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R4054	1-215-906-11	METAL OXIDE	15	5%	3W
R4060	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4061	1-216-821-11	RES-CHIP	1K	5%	1/16W
R4067	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R4079	1-216-833-11	RES-CHIP	10K	5%	1/16W
R4080	1-216-864-11	SHORT	0		
R4081	1-216-864-11	SHORT	0		
R4082	1-216-864-11	SHORT	0		
R4083	1-216-864-11	SHORT	0		
R4084	1-216-864-11	SHORT	0		
R4085	1-216-864-11	SHORT	0		
R4086	1-216-864-11	SHORT	0		
	< THERMISTOR >				
TH1701	1-800-193-00	THERMISTOR			
	< CRYSTAL >				
X1231	1-781-148-21	VIBRATOR, CRYSTAL			
X1401	1-760-895-21	VIBRATOR, CERAMIC			
X4000	1-760-105-11	VIBRATOR, CRYSTAL			

A Board Variant Parts KD-32DX100/32NX100

	< CAPACITOR >				
C1001	NOT FITTED				
	< CONNECTOR >				
CN1004	NOT FITTED				
CN4011	1-695-915-11	TAB (CONTACT)			
	< IC >				
IC1010	8-759-574-78	IC KA278R05-YDTU			
IC1011	8-759-450-47	IC BA05T			
IC1812	6-701-129-01	IC L7812CV/LSY			
	< RESISTOR >				
R1063	NOT FITTED				
R1064	NOT FITTED				
R1065	NOT FITTED				
R4000	1-216-864-11	SHORT	0		
	< TUNER >				
TU1001	8-598-529-01	FRONT END BTF-EU611			
TU4000	8-598-585-00	FRONT END BTD-DU604			
TU4002	NOT FITTED				

A Board Variant Parts KD-32NS100

	< CAPACITOR >				
C1001	1-164-004-11	CERAMIC CHIP 0.1UF		10.00%	25V
	< CONNECTOR >				
CN1004	1-695-915-11	TAB (CONTACT)			
CN4011	NOT FITTED				
	< IC >				
IC1010	8-759-470-47	IC BA05T			
IC1011	8-759-648-19	IC L7809CV/LSY			
IC1812	NOT FITTED				
	< RESISTOR >				
R1063	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R1064	1-216-840-11	RES-CHIP	39K	5%	1/16W
R1065	1-216-834-11	RES-CHIP	12K	5%	1/16W
R4000	NOT FITTED				
	< TUNER >				
TU1001	8-598-535-11	FRONT END BTF-EF411			
TU4000	NOT FITTED				
TU4002	8-598-562-00	MODULE INTERFACE DQS-CE102F			

*A-1634-066-A M3 Board, Complete

	< CAPACITOR >				
C9100	1-127-715-91	CERAMIC CHIP 0.22UF		10.00%	25V
C9101	1-162-927-11	CERAMIC CHIP 100PF		5.00%	50V
C9102	1-162-927-11	CERAMIC CHIP 100PF		5.00%	50V
C9104	1-104-664-91	ELECT	47UF	20.00%	25V
C9105	1-164-004-11	CERAMIC CHIP 0.1UF		10.00%	25V
C9110	1-165-321-91	CERAMIC CHIP 0.68UF		10.00%	16V
C9111	1-164-157-91	CERAMIC CHIP 0.068UF		10.00%	25V
C9112	1-164-156-91	CERAMIC CHIP 0.1UF		10.00%	25V
C9113	1-164-156-91	CERAMIC CHIP 0.1UF		10.00%	25V
C9114	1-164-156-91	CERAMIC CHIP 0.1UF		10.00%	25V
C9115	1-115-340-91	CERAMIC CHIP 0.22UF		10.00%	25V
C9117	1-164-156-91	CERAMIC CHIP 0.1UF		10.00%	25V
C9118	1-104-664-91	ELECT	47UF	20.00%	25V
C9119	1-162-960-11	CERAMIC CHIP 220PF		10.00%	50V
C9121	1-162-927-11	CERAMIC CHIP 100PF		5.00%	50V
C9122	1-115-340-91	CERAMIC CHIP 0.22UF		10.00%	25V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C9123	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9124	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9125	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9126	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C9127	1-163-239-91	CERAMIC CHIP 33PF	5.00% 50V
C9128	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C9129	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C9130	1-163-239-91	CERAMIC CHIP 33PF	5.00% 50V
C9131	1-163-239-11	CERAMIC CHIP 33PF	5.00% 50V
C9132	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9400	1-115-340-91	CERAMIC CHIP 0.22UF	10.00% 25V
C9500	1-104-664-91	ELECT 47UF	20.00% 25V
C9502	1-104-664-91	ELECT 47UF	20.00% 25V
C9503	1-126-964-91	ELECT 10UF	20.00% 50V
C9504	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9505	1-104-665-91	ELECT 100UF	20.00% 25V
C9506	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C9507	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 25V
C9508	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 25V
C9509	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C9510	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 25V
C9511	1-164-004-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9512	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9513	1-164-156-91	CERAMIC CHIP 0.1UF	10.00% 25V
C9514	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9515	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9516	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C9517	1-164-815-91	CERAMIC CHIP 0.001UF	10.00% 50V
C9518	1-127-715-91	CERAMIC CHIP 0.22UF	10.00% 25V
C9519	1-126-964-91	ELECT 10UF	20.00% 50V
C9520	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
		< CONNECTOR >	
CN9101	1-793-497-11	CONNECTOR, BOARD TO BOARD 40P	
		< DIODE >	
D9100	8-719-988-61	DIODE 1SS355TE-17	
D9101	8-719-988-61	DIODE 1SS355TE-17	
D9102	8-719-988-61	DIODE 1SS355TE-17	
D9103	8-719-988-61	DIODE 1SS355TE-17	
D9104	8-719-069-57	DIODE DTZ-TT11-6.8B	
D9105	8-719-050-38	DIODE M1MA152WK-T1	
D9107	8-719-025-31	DIODE 02CZ5.6-TE85L	
		< FILTER >	
FL9101	1-236-071-21	ENCAPSULATED COMPONENT	
FL9500	1-236-071-21	ENCAPSULATED COMPONENT	
FL9501	1-236-071-21	ENCAPSULATED COMPONENT	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< IC >	
IC9100	8-759-276-28	IC LM393PS-E20	
IC9104	8-759-281-41	IC MB3793-42PNF-ER	
IC9105	8-759-686-50	IC SAB-C161PI-LM	
IC9107	8-759-395-37	IC TC55257DFTL-70V-EL	
IC9108	8-759-564-06	IC M24C32-MN6T	
IC9109	8-759-544-32	IC M27C800-100K1	
IC9110	8-759-559-96	IC HEF4094BT	
IC9500	8-759-034-47	IC MC74F00M-T2	
IC9501	8-759-666-17	IC MSM5116400D-60SJR1	
IC9502	8-759-665-84	IC SDA5275-3PC02-22	
		< COIL >	
L9400	1-412-029-22	INDUCTOR 10UH	
L9401	1-412-029-22	INDUCTOR 10UH	
		< TRANSISTOR >	
Q9100	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9101	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9102	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
Q9103	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9105	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146	
Q9110	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
Q9500	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
Q9501	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
Q9502	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
Q9503	8-729-027-59	TRANSISTOR DTC144EKA-T146	
Q9504	8-729-027-59	TRANSISTOR DTC144EKA-T146	
		< RESISTOR >	
R9100	1-216-073-91	RES-CHIP 10K 5% 1/10W	
R9101	1-216-813-91	RES-CHIP 220 5% 1/10W	
R9102	1-216-813-91	RES-CHIP 220 5% 1/10W	
R9103	1-216-809-91	RES-CHIP 100 5% 1/10W	
R9104	1-216-833-91	RES-CHIP 10K 5% 1/10W	
R9105	1-216-833-91	RES-CHIP 10K 5% 1/10W	
R9106	1-216-833-91	RES-CHIP 10K 5% 1/10W	
R9107	1-216-809-91	RES-CHIP 100 5% 1/10W	
R9108	1-216-809-91	RES-CHIP 100 5% 1/10W	
R9109	1-216-833-91	RES-CHIP 10K 5% 1/10W	
R9110	1-216-837-91	RES-CHIP 22K 5% 1/10W	
R9111	1-216-809-91	RES-CHIP 100 5% 1/10W	
R9112	1-216-809-91	RES-CHIP 100 5% 1/10W	
R9113	1-216-813-91	RES-CHIP 220 5% 1/10W	
R9114	1-216-838-91	RES-CHIP 27K 5% 1/10W	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R9115	1-216-837-91	RES-CHIP	22K	5%	1/10W
R9116	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9117	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9119	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9120	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9121	1-216-017-91	RES-CHIP	47	5%	1/10W
R9122	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9123	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9127	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9128	1-216-845-91	RES-CHIP	100K	5%	1/10W
R9135	1-216-295-91	SHORT	0		
R9138	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9140	1-216-825-91	RES-CHIP	2.2K	5%	1/10W
R9141	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9142	1-216-817-91	RES-CHIP	470	5%	1/10W
R9143	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9144	1-216-825-91	RES-CHIP	2.2K	5%	1/10W
R9145	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9146	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9147	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9148	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9149	1-216-809-91	RES-CHIP	100	5%	1/10W
R9150	1-216-809-91	RES-CHIP	100	5%	1/10W
R9151	1-216-809-91	RES-CHIP	100	5%	1/10W
R9153	1-216-809-91	RES-CHIP	100	5%	1/10W
R9159	1-216-069-91	RES-CHIP	6.8K	5%	1/10W
R9161	1-216-069-91	RES-CHIP	6.8K	5%	1/10W
R9162	1-216-831-91	RES-CHIP	6.8K	5%	1/10W
R9164	1-216-069-91	RES-CHIP	6.8K	5%	1/10W
R9166	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9168	1-216-069-91	RES-CHIP	6.8K	5%	1/10W
R9172	1-216-831-91	RES-CHIP	6.8K	5%	1/10W
R9173	1-216-864-91	SHORT	0		
R9174	1-216-809-91	RES-CHIP	100	5%	1/10W
R9175	1-216-025-91	RES-CHIP	100	5%	1/10W
R9176	1-216-025-91	RES-CHIP	100	5%	1/10W
R9177	1-216-809-91	RES-CHIP	100	5%	1/10W
R9178	1-216-809-91	RES-CHIP	100	5%	1/10W
R9179	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9184	1-216-809-91	RES-CHIP	100	5%	1/10W
R9185	1-216-025-91	RES-CHIP	100	5%	1/10W
R9186	1-216-025-91	RES-CHIP	100	5%	1/10W
R9187	1-216-829-91	RES-CHIP	4.7K	5%	1/10W
R9188	1-216-833-91	RES-CHIP	10K	5%	1/10W
R9189	1-216-809-91	RES-CHIP	100	5%	1/10W
R9191	1-216-809-91	RES-CHIP	100	5%	1/10W
R9192	1-216-025-91	RES-CHIP	100	5%	1/10W
R9193	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9194	1-216-097-91	RES-CHIP	100K	5%	1/10W
R9195	1-216-097-91	RES-CHIP	100K	5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R9196	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9197	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9500	1-216-864-91	SHORT	0		
R9501	1-216-864-91	SHORT	0		
R9502	1-216-864-91	SHORT	0		
R9504	1-216-817-91	RES-CHIP	470	5%	1/10W
R9505	1-216-822-91	RES-CHIP	1.2K	5%	1/10W
R9506	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9507	1-216-845-91	RES-CHIP	100K	5%	1/10W
R9508	1-216-805-91	RES-CHIP	47	5%	1/10W
R9509	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9510	1-216-017-91	RES-CHIP	47	5%	1/10W
R9511	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9512	1-216-017-91	RES-CHIP	47	5%	1/10W
R9513	1-216-017-91	RES-CHIP	47	5%	1/10W
R9514	1-216-805-91	RES-CHIP	47	5%	1/10W
R9515	1-216-864-91	SHORT	0		
R9516	1-216-864-91	SHORT	0		
R9517	1-216-864-91	SHORT	0		
R9518	1-216-821-91	RES-CHIP	1K	5%	1/10W
R9519	1-216-039-91	RES-CHIP	390	5%	1/10W
R9520	1-216-039-91	RES-CHIP	390	5%	1/10W
R9521	1-216-039-91	RES-CHIP	390	5%	1/10W
R9522	1-216-864-91	SHORT	0		
R9523	1-216-864-91	SHORT	0		
R9524	1-216-864-91	SHORT	0		
R9525	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
R9526	1-216-057-91	RES-CHIP	2.2K	5%	1/10W
R9527	1-216-825-91	RES-CHIP	2.2K	5%	1/10W
R9528	1-216-025-91	RES-CHIP	100	5%	1/10W
R9529	1-216-809-91	RES-CHIP	100	5%	1/10W
R9530	1-216-025-91	RES-CHIP	100	5%	1/10W
R9531	1-216-864-91	SHORT	0		
		< CRYSTAL >			
X9101	1-781-107-21	VIBRATOR, CERAMIC			
X9500	1-760-551-21	VIBRATOR, CERAMIC			

*A-1636-052-A G1 Board, Complete

	4-202-373-01	SPRING, IC			
	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C4600 ⚠	1-161-964-91	CERAMIC	0.0047UF		250V
C4601 ⚠	1-161-964-91	CERAMIC	0.0047UF		250V
C4602	1-165-685-11	ELECT(BLOCK)	82UF	20	450V
C4603	1-127-568-51	CERAMIC	4700PF	10%	2KV
C4604	1-126-964-11	ELECT	10UF	20.00%	50V
C4605	1-102-228-00	CERAMIC	470PF	10.00%	500V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.		PART.NO	DESCRIPTION	REMARK
C4606		1-162-318-11	CERAMIC 0.001UF	10.00% 500V
C4607		1-165-602-91	CERAMIC 220PF	10 2KV
C4608		1-126-967-11	ELECT 47UF	20.00% 50V
C4609		1-130-777-00	MYLAR 0.1UF	5.00% 100V
C4610		1-130-777-00	MYLAR 0.1UF	5.00% 100V
C4611		1-126-971-11	ELECT 470UF	20.00% 50V
C4612		1-136-165-00	FILM 0.1UF	5.00% 50V
C4615		1-136-165-00	FILM 0.1UF	5.00% 50V
C4616		1-104-665-11	ELECT 100UF	20.00% 25V
C4618		1-136-165-00	FILM 0.1UF	5.00% 50V
C4619		1-104-665-11	ELECT 100UF	20.00% 25V
C4621		1-136-165-00	FILM 0.1UF	5.00% 50V
C4622		1-104-665-11	ELECT 100UF	20.00% 25V
C4623		1-136-165-00	FILM 0.1UF	5.00% 50V
C4624		1-126-961-11	ELECT 2.2UF	20.00% 50V
C4625		1-115-766-51	ELECT 0.0022F	20.00% 16V
C4626		1-104-665-11	ELECT 100UF	20.00% 25V
C4627		1-136-165-00	FILM 0.1UF	5.00% 50V
C4628		1-115-766-51	ELECT 0.0022F	20.00% 16V
C4629		1-115-792-11	ELECT 0.0022F	20.00% 25V
			< CONNECTOR >	
CN4600	⚠	1-580-843-11	PIN, CONNECTOR (POWER)	
CN4601		*1-564-506-11	PLUG, CONNECTOR 3P	
CN4602		*1-764-333-11	PLUG, CONNECTOR 10P	
CN4603		1-564-511-11	PLUG, CONNECTOR 8P	
			< DIODE >	
D4600	⚠	8-719-025-88	DIODE GBU4JL-6088	
D4601		8-719-080-26	DIODE SARS01V0	
D4602		8-719-075-11	DIODE AG01ZV0	
D4603		8-719-075-11	DIODE AG01ZV0	
D4604		8-719-075-11	DIODE AG01ZV0	
D4605		8-719-075-11	DIODE AG01ZV0	
D4606		8-719-072-17	DIODE BYW100-200RL	
D4607		6-500-081-01	DIODE RK34-LF-C4	
D4608		8-719-312-10	DIODE RU4AM-T3	
D4609		6-500-082-01	DIODE RJ43-LF-T2	
D4611		8-719-991-33	DIODE 1SS133T-77	
D4612		8-719-063-70	DIODE D1NL20U-TA2	
			< FERRITE BEAD >	
FB4601		1-535-465-11	LEAD, JUMPER (5.0MM)	
FB4602		1-410-396-41	FERRITE 0.45UH	
FB4603		1-410-396-41	FERRITE 0.45UH	
FB4604		1-410-396-41	FERRITE 0.45UH	
FB4605		1-410-396-41	FERRITE 0.45UH	
FB4606		1-535-465-11	LEAD, JUMPER (5.0MM)	

REF.NO.		PART.NO	DESCRIPTION	REMARK
			< IC >	
IC4600	⚠	6-700-292-01	IC STR-L474-LF428	
IC4601	⚠	8-749-013-21	IC TLP721(D4-G)	
IC4602		6-700-293-01	IC SE-012N-LF4	
IC4604		8-759-648-19	IC L7809CV/LSY	
			< COIL >	
L4600		1-410-397-21	FERRITE 1.1UH	
L4601		1-535-465-11	LEAD, JUMPER (5.0MM)	
L4602		1-412-519-11	INDUCTOR 3.3UH	
L4603		1-412-519-11	INDUCTOR 3.3UH	
L4604		1-412-519-11	INDUCTOR 3.3UH	
			< IC LINK >	
PS4601		1-535-465-11	LEAD, JUMPER (5.0MM)	
PS4602		1-535-465-11	LEAD, JUMPER (5.0MM)	
PS4603	⚠	1-801-550-21	PROTECTOR, MODULE	
PS4604	⚠	1-801-550-21	PROTECTOR, MODULE	
PS4605	⚠	1-801-549-21	PROTECTOR, MODULE	
			< TRANSISTOR >	
Q4600		8-729-029-56	TRANSISTOR DTA144ESA	
Q4601		8-729-119-78	TRANSISTOR 2SC2785-HFE	
			< RESISTOR >	
R4600	⚠	1-217-155-00	METAL 1 10% 2W	
R4601	⚠	1-260-127-11	CARBON 220K 5% 1/2W	
R4602	⚠	1-217-418-00	FUSIBLE 0.47 10% 1/2W	
R4603		1-260-133-11	CARBON 680K 5% 1/2W	
R4604		1-215-884-11	METAL OXIDE 47 5% 2W	
R4605		1-249-401-11	CARBON 47 5% 1/4W	
R4607		1-249-421-11	CARBON 2.2K 5% 1/4W	
R4608	⚠	1-260-128-91	CARBON 270K 5% 1/2W	
R4609		1-249-419-11	CARBON 1.5K 5% 1/4W	
R4610		1-249-403-11	CARBON 68 5% 1/4W	
R4611		1-249-418-11	CARBON 1.2K 5% 1/4W	
R4612		1-249-419-11	CARBON 1.5K 5% 1/4W	
R4613		1-259-880-11	CARBON 2.2M 5% 1/4W	
R4614		1-249-417-11	CARBON 1K 5% 1/4W	
R4615		1-249-425-11	CARBON 4.7K 5% 1/4W	
R4616		1-216-366-00	METAL OXIDE 0.56 5% 2W	
R4617		1-249-415-11	CARBON 680 5% 1/4W	
			< RELAY >	
RY4601	⚠	1-755-389-11	RELAY (AC POWER)	
			< TRANSFORMER >	
T4601	⚠	1-437-445-11	TRANSFORMER, CONVERTER (SRT)	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

*A-1636-054-A G Board, Complete

REF.NO.		PART.NO	DESCRIPTION	REMARK
		4-382-854-01	SCREW (M3X8), P, SW (+)	
			< CAPACITOR >	
C6001	⚠	1-165-439-11	FILM 0.47UF	275V
C6002	⚠	1-165-439-11	FILM 0.47UF	275V
C6003	⚠	1-119-887-51	CERAMIC 1000PF 20.00%	250V
C6004	⚠	1-119-887-51	CERAMIC 1000PF 20.00%	250V
C6005		1-126-965-91	ELECT 22UF 20.00%	50V
C6006		1-117-753-11	ELECT(BLOCK) 470UF 20.00%	450V
C6007		1-126-964-11	ELECT 10UF 20.00%	50V
C6008		1-126-963-11	ELECT 4.7UF 20.00%	50V
C6010		1-136-165-00	FILM 0.1UF 5.00%	50V
C6011		1-162-964-11	CERAMIC CHIP 0.001UF 10.00%	50V
C6012	⚠	1-161-830-00	CERAMIC 0.0047UF	500V
C6013	⚠	1-161-830-00	CERAMIC 0.0047UF	500V
C6015		1-115-339-11	CERAMIC CHIP 0.1UF 10.00%	50V
C6016		1-161-830-00	CERAMIC 0.0047UF	500V
C6017		1-161-830-00	CERAMIC 0.0047UF	500V
C6018		1-126-949-11	ELECT 220UF 20.00%	35V
C6020		1-135-946-21	FILM 47000PF 3%	800V
C6021		1-164-645-11	CERAMIC 1000PF 10.00%	500V
C6022		1-126-963-11	ELECT 4.7UF 20.00%	50V
C6023		1-110-626-41	ELECT 330UF 20.00%	160V
C6024		1-164-625-11	CERAMIC 680PF 10.00%	500V
C6025		1-164-625-11	CERAMIC 680PF 10.00%	500V
C6026		1-164-625-11	CERAMIC 680PF 10.00%	500V
C6027		1-164-625-11	CERAMIC 680PF 10.00%	500V
C6028		1-128-548-11	ELECT 4700UF 20.00%	25V
C6029		1-126-939-11	ELECT 10000UF 20.00%	16V
C6030		1-126-944-11	ELECT 3300UF 20.00%	25V
C6031		1-126-944-11	ELECT 3300UF 20.00%	25V
C6032	⚠	1-113-927-11	CERAMIC 0.01UF 20.00%	250V
C6033		1-162-964-11	CERAMIC CHIP 0.001UF 10.00%	50V
C6035		1-136-165-00	FILM 0.1UF 5.00%	50V
C6036		1-136-479-11	FILM 0.001UF 2.00%	50V
C6037		1-126-947-11	ELECT 47UF 20.00%	25V
C6038		1-164-645-11	CERAMIC 1000PF 10.00%	500V
C6039		1-125-891-11	CERAMIC CHIP 0.47UF 10.00%	10V
C6040		1-115-340-11	CERAMIC CHIP 0.22UF 10.00%	25V
C6045		1-115-339-11	CERAMIC CHIP 0.1UF 10.00%	50V
C6102		1-126-943-11	ELECT 2200UF 20.00%	25V
C6103		1-126-971-11	ELECT 470UF 20.00%	50V
C6105		1-126-964-11	ELECT 10UF 20.00%	50V
C6106		1-126-964-11	ELECT 10UF 20.00%	50V
			< CONNECTOR >	
CN6001	⚠	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
CN6002	⚠	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN6003	⚠	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CN6004	⚠	*1-691-960-11	PIN, CONNECTOR (PC BOARD) 3P	
CN6005		*1-564-509-11	PLUG, CONNECTOR 6P	
CN6006		*1-564-516-11	PLUG, CONNECTOR 13P	
CN6007	⚠	*1-564-506-11	PLUG, CONNECTOR 3P	
CN6008		*1-564-507-11	PLUG, CONNECTOR 4P	
CN6013		*1-564-506-11	PLUG, CONNECTOR 3P	
CN6014		1-695-915-11	TAB (CONTACT)	
			< DIODE >	
D6001		8-719-085-11	DIODE GSIB460/45	
D6002		8-719-982-26	DIODE MTZJ-33B	
D6004		8-719-979-64	DIODE UF4005PKG23	
D6006		8-719-081-97	DIODE MMDL914T1	
D6007		8-719-081-97	DIODE MMDL914T1	
D6008		8-719-063-70	DIODE D1NL20U	
D6009		8-719-110-41	DIODE RD15ES-B2	
D6010		8-719-085-24	DIODE FBIU4D7M1-B	
D6014		8-719-083-92	DIODE YG802C09RF122	
D6015		8-719-085-10	DIODE FMB-24LF654	
D6016		8-719-312-47	DIODE RBV-406B	
D6101		8-719-081-97	DIODE MMDL914T1	
D6102		8-719-511-40	DIODE S1VB40	
D6103		8-719-081-97	DIODE MMDL914T1	
D6104		8-719-081-97	DIODE MMDL914T1	
D6105		8-719-081-97	DIODE MMDL914T1	
D6106		8-719-081-97	DIODE MMDL914T1	
D6107		8-719-081-97	DIODE MMDL914T1	
			< FERRITE BEAD >	
FB6002		1-410-397-21	FERRITE 1.1UH	
FB6003		1-410-397-21	FERRITE 1.1UH	
			< IC >	
IC6001		8-759-670-30	IC MCZ3001D	
IC6003		8-749-016-19	IC SE135N-LF4	
			< COIL >	
L6001		1-406-663-21	INDUCTOR 47UH	
L6002		1-412-529-11	INDUCTOR 22UH	
L6003		1-412-529-11	INDUCTOR 22UH	
L6004		1-535-143-61	LEAD, JUMPER (5.0MM)	
L6005		1-535-143-61	LEAD, JUMPER (5.0MM)	
L6006		1-406-659-11	INDUCTOR 10UH	
L6007		1-412-525-31	INDUCTOR 10UH	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

G **C**

REF.NO.		PART.NO	DESCRIPTION			REMARK
			< PHOTO COUPLER >			
PH6001	⚠	8-749-016-21	IC TCET1103G			
			< TRANSISTOR >			
Q6003		8-729-010-29	TRANSISTOR MSD601-RST1			
Q6005		8-729-029-56	TRANSISTOR DTA144ESA			
Q6006		8-729-056-60	TRANSISTOR SPA07N60C2			
Q6007		8-729-056-60	TRANSISTOR SPA07N60C2			
Q6010		8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q6101		8-729-029-56	TRANSISTOR DTA144ESA			
Q6102		8-729-010-29	TRANSISTOR MSD601-RST1			
Q6103		8-729-029-56	TRANSISTOR DTA144ESA			
Q6104		8-729-010-29	TRANSISTOR MSD601-RST1			
Q6105		8-729-010-29	TRANSISTOR MSD601-RST1			
			< RESISTOR >			
JR6004		1-216-295-91	SHORT	0		
R6003	⚠	1-202-933-61	FUSIBLE	0.1	10%	1/2W
R6004	⚠	1-205-998-11	CEMENTED	1	5%	10W
R6005	⚠	1-205-998-11	CEMENTED	1	5%	10W
R6006	⚠	1-205-998-11	CEMENTED	1	5%	10W
R6007		1-243-979-21	METAL OXIDE	0.1	5%	2W
R6008		1-243-979-21	METAL OXIDE	0.1	5%	2W
R6009		1-208-810-11	METAL CHIP	15K	0.5%	1/10W
R6010		1-215-481-00	METAL	330K	1%	1/4W
R6011		1-535-143-71	LEAD, JUMPER (7.5MM)			
R6013	⚠	1-218-265-11	METAL	8.2M	5%	1W
R6014		1-215-926-00	METAL OXIDE	33K	5%	3W
R6015		1-208-757-11	METAL CHIP	91	0.5%	1/10W
R6016		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6017		1-216-833-11	RES-CHIP	10K	5%	1/16W
R6018		1-247-895-91	CARBON	470K	5%	1/4W
R6019		1-247-891-00	CARBON	330K	5%	1/4W
R6020		1-216-820-11	RES-CHIP	820	5%	1/16W
R6021		1-216-362-11	METAL OXIDE	0.27	5%	2W
R6022		1-216-833-11	RES-CHIP	10K	5%	1/16W
R6024		1-216-615-11	METAL CHIP	33	0.5%	1/10W
R6028		1-249-389-11	CARBON	4.7	5%	1/4W
R6029		1-216-833-11	RES-CHIP	10K	5%	1/16W
R6030		1-216-817-11	RES-CHIP	470	5%	1/16W
R6032		1-249-417-11	CARBON	1K	5%	1/4W
R6033		1-215-481-00	METAL	330K	1%	1/4W
R6035		1-260-083-11	CARBON	47	5%	1/2W
R6036		1-216-817-11	RES-CHIP	470	5%	1/16W
R6037		1-249-405-11	CARBON	100	5%	1/4W
R6038		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6039		1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R6040		1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R6042		1-216-295-91	SHORT	0		
R6045		1-208-770-11	METAL CHIP	330	0.5%	1/10W
R6047		1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R6048		1-215-481-00	METAL	330K	1%	1/4W
R6049		1-208-805-11	METAL CHIP	9.1K	0.5%	1/10W
R6050		1-208-758-11	METAL CHIP	100	0.5%	1/10W
R6054		1-216-615-11	METAL CHIP	33	0.5%	1/10W
R6056		1-216-295-91	SHORT	0		
R6101		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6102		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6103		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6104		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6105		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6106		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6107		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6108		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6109		1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R6110		1-216-821-11	RES-CHIP	1K	5%	1/16W
R6111		1-535-143-71	LEAD, JUMPER (7.5MM)			
			< RELAY >			
RY6001	⚠	1-755-395-11	RELAY (AC POWER)			
RY6002	⚠	1-755-389-11	RELAY (AC POWER)			
			< TRANSFORMER >			
T6001	⚠	1-431-402-11	TRANSFORMER, LINE FILTER			
T6002	⚠	1-437-443-11	TRANSFORMER, CONVERTER (PIT)			
T6003	⚠	1-431-402-11	TRANSFORMER, LINE FILTER			
T6101	⚠	1-437-483-11	TRANSFORMER, STANDBY			
			< THERMISTOR >			
TH6002	⚠	1-803-540-11	THERMISTOR			

*A-1638-162-A C Board, Complete

		4-382-854-01	SCREW (M3X8), P, SW (+)			
			< CAPACITOR >			
C5301		1-163-075-00	CERAMIC CHIP	0.047UF		50V
C5302		1-128-528-11	ELECT	470UF	20.00%	16V
C5303		1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C5304		1-107-967-11	ELECT	1UF	20.00%	400V
C5305		1-136-207-11	MYLAR	0.047UF	10.00%	400V
C5306		1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V
C5307		1-163-233-91	CERAMIC CHIP	18PF	5.00%	50V
C5308		1-163-089-00	CERAMIC CHIP	6PF	0.50PF	50V
C5309		1-163-035-00	CERAMIC CHIP	0.047UF		50V
C5310		1-163-247-91	CERAMIC CHIP	68PF	5.00%	50V
C5325		1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V
C5326		1-163-017-00	CERAMIC CHIP	0.0047UF	10.00%	50V

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

C

REF.NO.	PART.NO	DESCRIPTION	REMARK
C5328	1-128-528-11	ELECT 470UF	20.00% 16V
C5329	1-107-967-11	ELECT 1UF	20.00% 400V
C5330	1-136-207-11	MYLAR 0.047UF	10.00% 400V
C5331	1-163-089-00	CERAMIC CHIP 6PF	0.50PF 50V
C5332	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C5333	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C5334	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V
C5350	1-107-907-11	ELECT 22UF	20.00% 50V
C5351	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C5352	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C5353	1-163-075-00	CERAMIC CHIP 0.047UF	50V
C5354	1-128-528-11	ELECT 470UF	20.00% 16V
C5355	1-107-967-11	ELECT 1UF	20.00% 400V
C5356	1-136-207-11	MYLAR 0.047UF	10.00% 400V
C5357	1-163-231-11	CERAMIC CHIP 15PF	5.00% 50V
C5358	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C5359	1-163-035-00	CERAMIC CHIP 0.047UF	50V
C5360	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V
C5375	1-107-902-11	ELECT 1UF	20.00% 50V
C5376	1-102-106-00	CERAMIC 100PF	10.00% 50V
C5377	1-104-331-11	CERAMIC 0.0022UF	10.00% 1KV
C5378	1-162-116-00	CERAMIC 680PF	10.00% 2KV
C5379	1-162-114-00	CERAMIC 0.0047UF	2KV
C5380	1-107-652-11	ELECT 10UF	20.00% 250V
		< CONNECTOR >	
CN5400	*1-564-511-11	PLUG, CONNECTOR 8P	
CN5511	1-695-915-11	TAB (CONTACT)	
CN5633	1-695-915-11	TAB (CONTACT)	
CN5634	*1-564-508-11	PLUG, CONNECTOR 5P	
		< DIODE >	
D5300	8-719-911-19	DIODE 1SS119-25	
D5302	8-719-901-83	DIODE 1SS83	
D5325	8-719-911-19	DIODE 1SS119-25	
D5327	8-719-901-83	DIODE 1SS83	
D5350	8-719-911-19	DIODE 1SS119-25	
D5351	8-719-991-33	DIODE 1SS133T-77	
D5353	8-719-901-83	DIODE 1SS83	
D5375	8-719-991-33	DIODE 1SS133T-77	
D5376	8-719-991-33	DIODE 1SS133T-77	
D5377	8-719-908-03	DIODE GP08D	
D5378	8-719-921-88	DIODE MTZJ-13B	
D5379	8-719-982-96	DIODE MTZJ-T-77-2.2A	
D5380	8-719-982-96	DIODE MTZJ-T-77-2.2A	
		< IC >	
IC5300	8-759-360-83	IC TDA6111Q/N4	
IC5325	8-759-360-83	IC TDA6111Q/N4	
IC5350	8-759-360-83	IC TDA6111Q/N4	

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< SOCKET >	
J5375	⚠ 1-251-732-11	SOCKET, CRT	
		< COIL >	
L5300	1-408-591-11	INDUCTOR 1UH	
L5325	1-408-591-11	INDUCTOR 1UH	
L5350	1-408-591-11	INDUCTOR 1UH	
L5375	1-414-743-21	INDUCTOR 47UH	
L5376	⚠ 1-532-637-00	LINK, IC 1A/150V	
		< TRANSISTOR >	
Q5300	8-729-255-12	TRANSISTOR 2SC2551-O	
Q5301	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q5325	8-729-255-12	TRANSISTOR 2SC2551-O	
Q5326	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q5350	8-729-029-56	TRANSISTOR DTA144ESA	
Q5351	8-729-255-12	TRANSISTOR 2SC2551-O	
Q5352	8-729-424-02	TRANSISTOR 2SB709A-QRS-TX	
Q5375	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5376	8-729-026-39	TRANSISTOR 2SA933AS-QT	
		< RESISTOR >	
R5300	1-249-417-11	CARBON 1K 5% 1/4W	
R5301	1-247-807-31	CARBON 100 5% 1/4W	
R5302	1-535-143-61	LEAD, JUMPER (5.0MM)	
R5303	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
R5304	1-202-557-00	SOLID 220 20% 1/2W	
R5305	1-215-929-11	METAL OXIDE 100K 5% 3W	
R5306	1-249-424-11	CARBON 3.9K 5% 1/4W	
R5307	1-249-433-11	CARBON 22K 5% 1/4W	
R5308	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R5309	1-216-658-11	METAL CHIP 2K 0.5% 1/10W	
R5310	1-216-059-00	RES-CHIP 2.7K 5% 1/10W	
R5325	1-249-417-11	CARBON 1K 5% 1/4W	
R5326	1-247-807-31	CARBON 100 5% 1/4W	
R5327	1-535-143-61	LEAD, JUMPER (5.0MM)	
R5328	1-208-790-11	METAL CHIP 2.2K 0.5% 1/10W	
R5329	1-202-557-00	SOLID 220 20% 1/2W	
R5330	1-215-929-11	METAL OXIDE 100K 5% 3W	
R5331	1-249-424-11	CARBON 3.9K 5% 1/4W	
R5332	1-249-433-11	CARBON 22K 5% 1/4W	
R5333	1-216-057-00	RES-CHIP 2.2K 5% 1/10W	
R5334	1-216-059-00	RES-CHIP 2.7K 5% 1/10W	
R5335	1-216-658-11	METAL CHIP 2K 0.5% 1/10W	
R5350	1-249-417-11	CARBON 1K 5% 1/4W	
R5351	1-247-807-31	CARBON 100 5% 1/4W	
R5352	1-249-416-11	CARBON 820 5% 1/4W	
R5353	1-249-421-11	CARBON 2.2K 5% 1/4W	
R5354	1-249-418-11	CARBON 1.2K 5% 1/4W	

REF.NO.	PART.NO	DESCRIPTION			REMARK
R5355	1-535-143-61	LEAD, JUMPER (5.0MM)			
R5356	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R5357	1-202-557-00	SOLID	220	20%	1/2W
R5358	1-215-929-11	METAL OXIDE	100K	5%	3W
R5359	1-249-433-11	CARBON	22K	5%	1/4W
R5360	1-249-424-11	CARBON	3.9K	5%	1/4W
R5361	1-249-431-11	CARBON	15K	5%	1/4W
R5362	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R5363	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R5364	1-216-658-11	METAL CHIP	2K	0.5%	1/10W
R5375	1-249-435-11	CARBON	33K	5%	1/4W
R5376	1-249-429-11	CARBON	10K	5%	1/4W
R5377	1-249-421-11	CARBON	2.2K	5%	1/4W
R5378	1-249-429-11	CARBON	10K	5%	1/4W
R5379	1-249-438-11	CARBON	56K	5%	1/4W
R5380	1-249-433-11	CARBON	22K	5%	1/4W
R5381	1-216-055-00	RES-CHIP	1.8K	5%	1/10W
R5382	1-202-549-00	SOLID	100	20%	1/2W
R5383	1-216-399-00	METAL OXIDE	6.8	5%	3W
R5384	1-216-399-00	METAL OXIDE	6.8	5%	3W
R5385	1-202-549-00	SOLID	100	20%	1/2W
R5388	1-215-911-11	METAL OXIDE	100	5%	3W
R5389	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV5375	1-241-656-11	RES, ADJ, METAL FILM 110M			

***A-1640-444-A D Board, Complete**

	4-382-854-01	SCREW (M3X8), P, SW (+)			
		< CAPACITOR >			
C8100	1-136-165-00	FILM	0.1UF	5.00%	50V
C8101	1-136-165-00	FILM	0.1UF	5.00%	50V
C8102	1-136-165-00	FILM	0.1UF	5.00%	50V
C8103	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8104	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8105	1-126-947-11	ELECT	47UF	20.00%	25V
C8106	1-163-145-00	CERAMIC CHIP	0.0015UF	5.00%	50V
C8108	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8109	1-126-947-11	ELECT	47UF	20.00%	25V
C8112	1-164-227-11	CERAMIC CHIP	0.022UF	10.00%	25V
C8113	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8114	1-126-964-11	ELECT	10UF	20.00%	50V
C8115	1-162-962-11	CERAMIC CHIP	470PF	10.00%	50V
C8116	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8117	1-115-416-11	CERAMIC CHIP	0.001UF	5.00%	25V
C8118	1-162-970-11	CERAMIC CHIP	0.01UF	10.00%	25V
C8120	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8125	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8126	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8128	1-162-968-11	CERAMIC CHIP	0.0047UF	10.00%	50V
C8131	1-535-143-61	LEAD,JUMPER (5.0MM)			
C8132	1-164-230-11	CERAMIC CHIP	220PF	5.00%	50V
C8135	1-126-964-11	ELECT	10UF	20.00%	50V
C8136	1-126-964-11	ELECT	10UF	20.00%	50V
C8140	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V
C8209	1-164-315-11	CERAMIC CHIP	470PF	5.00%	50V
C8210	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C8801	1-126-947-11	ELECT	47UF	20.00%	25V
C8802	1-126-960-11	ELECT	1UF	20.00%	50V
C8803	1-126-960-11	ELECT	1UF	20.00%	50V
C8804	1-102-114-00	CERAMIC	470PF	10.00%	50V
C8805	1-102-114-00	CERAMIC	470PF	10.00%	50V
C8808	1-102-030-00	CERAMIC	330PF	10.00%	500V
C8809	1-102-030-00	CERAMIC	330PF	10.00%	500V
C8810	1-107-368-11	MYLAR	0.047UF	10.00%	200V
C8811	1-107-368-11	MYLAR	0.047UF	10.00%	200V
C8812	1-162-131-11	CERAMIC	220PF	10.00%	2KV
C8813	1-162-134-11	CERAMIC	470PF	10.00%	2KV
C8814	1-117-640-11	FILM	6800PF	3.00%	1.2KV
C8815	1-117-835-11	FILM	6200PF	3.00%	1.5KV
C8816	1-162-964-11	CERAMIC CHIP	0.001UF	10.00%	50V
C8817	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8818	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8819	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8820	1-125-893-11	FILM	680PF	3.00%	1.5KV
C8824	1-107-846-11	FILM	0.1UF	5.00%	250V
C8825	1-117-662-11	FILM	0.18UF	5.00%	250V
C8826	1-115-519-11	FILM	0.56UF	5.00%	250V
C8827	1-107-846-11	FILM	0.1UF	5.00%	250V
C8828	1-127-681-11	FILM MELF	10000PF	2%	100V
C8829	1-127-680-11	FILM MELF	4700PF	2%	100V
C8830	1-107-655-11	ELECT	47UF	20.00%	250V
C8831	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8832	1-126-941-11	ELECT	470UF	20.00%	25V
C8833	1-126-941-11	ELECT	470UF	20.00%	25V
C8834	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8835	1-102-228-00	CERAMIC	470PF	10.00%	500V
C8836	1-123-024-21	ELECT	33UF		160V
C8837	1-106-375-12	MYLAR	0.022UF	10.00%	250V
C8840	1-165-176-11	CERAMIC CHIP	0.047UF	10.00%	16V
C8841	1-126-947-11	ELECT	47UF	20.00%	25V
C8844	1-115-513-21	FILM	0.18UF	5.00%	250V
C8851	1-162-131-11	CERAMIC	220PF	10.00%	2KV
C8852	1-162-129-00	CERAMIC	150PF	10.00%	2KV
C8853	1-129-898-00	FILM	0.0022UF	5.00%	630V
C8855	1-136-205-11	MYLAR	0.022UF	10.00%	400V
C8856	1-102-030-00	CERAMIC	330PF	10.00%	500V
C8861	1-162-927-11	CERAMIC CHIP	100PF	5.00%	50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8869	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V	
		< CONNECTOR >	
CN8600	*1-564-509-11	PLUG, CONNECTOR 6P	
CN8601	*1-564-506-11	PLUG, CONNECTOR 3P	
CN8611	*1-785-270-12	PIN, DY CONNECTOR (PC BOARD)	
CN8612	*1-564-511-11	PLUG, CONNECTOR 8P	
CN8614	*1-564-508-11	PLUG, CONNECTOR 5P	
CN8616	1-695-915-11	TAB (CONTACT)	
CN8620	*1-764-333-11	PLUG, CONNECTOR 10P	
CN8810	*1-564-510-11	PLUG, CONNECTOR 7P	
		< DIODE >	
D8102	8-719-074-43	DIODE BAS316-115	
D8103	8-719-074-43	DIODE BAS316-115	
D8104	8-719-074-43	DIODE BAS316-115	
D8105	8-719-074-43	DIODE BAS316-115	
D8107	8-719-074-43	DIODE BAS316-115	
D8108	8-719-921-40	DIODE MTZJ-4.7C	
D8128	8-719-074-43	DIODE BAS316-115	
D8129	8-719-074-43	DIODE BAS316-115	
D8131	8-719-074-43	DIODE BAS316-115	
D8132	8-719-074-43	DIODE BAS316-115	
D8133	8-719-074-43	DIODE BAS316-115	
D8198	1-535-143-61	LEAD, JUMPER (5.0MM)	
D8199	8-719-074-43	DIODE BAS316-115	
D8409	8-719-921-40	DIODE MTZJ-4.7C	
D8611	8-719-074-43	DIODE BAS316-115	
D8612	8-719-074-43	DIODE BAS316-115	
D8803	8-719-908-03	DIODE GP08D	
D8805	8-719-302-43	DIODE ELIZ	
D8806	8-719-979-85	DIODE EGP20G	
D8807	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8808	8-719-085-12	DIODE BYV98-200-RAS 15/12	
D8811	8-719-110-41	DIODE RD15ES-B2	
D8818	8-719-109-89	DIODE RD5.6ESB2	
D8819	8-719-914-43	DIODE DAN202K	
D8820	8-719-074-43	DIODE BAS316-115	
D8851	8-719-970-87	DIODE ERA38-06	
D8856	8-719-074-43	DIODE BAS316-115	
D8857	8-719-110-41	DIODE MTZJ-15B	
D8858	8-719-074-43	DIODE BAS316-115	
		< FERRITE BEAD >	
FB8807	1-410-397-21	FERRITE 1.1UH	
		< IC >	
IC8100	8-759-450-95	IC LM393N	
IC8101	8-759-450-95	IC LM393N	
IC8102	8-759-638-79	IC NJM3404AD-W	
IC8103	8-759-450-95	IC LM393N	
		< COIL >	
L8801	1-410-397-21	FERRITE 1.1UH	
L8802	1-410-397-21	FERRITE 1.1UH	
L8803	1-410-397-21	FERRITE 1.1UH	
L8805	1-408-947-00	INDUCTOR 2.2MH	
L8851	1-535-143-61	LEAD, JUMPER (5.0MM)	
		< FILTER >	
LF8801	1-406-985-11	INDUCTOR 2.2MH	
LF8851	1-406-674-11	INDUCTOR 3.3MH	
		< TRANSISTOR >	
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8132	1-801-806-11	TRANSISTOR DTC144EKA	
Q8135	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8136	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8137	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8203	8-729-010-05	TRANSISTOR MSB709-RT1	
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1	
Q8801	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8802	8-729-048-47	TRANSISTOR 2SC2688(5)-LK	
Q8803	8-729-056-16	TRANSISTOR 2SC5698-SONY-CA	
Q8804	8-729-056-17	TRANSISTOR 2SC5696-SONY-CA	
Q8805	8-729-050-49	TRANSISTOR IRF1614-005	

REF.NO.	PART.NO	DESCRIPTION			REMARK
Q8806	8-729-047-59	TRANSISTOR STP5NB40FP			
Q8807	1-801-806-11	TRANSISTOR DTC144EKA-T146			
Q8822	8-729-010-29	TRANSISTOR MSD601-RST1			
Q8823	8-729-010-05	TRANSISTOR MSB709-RT1			
Q8851	8-729-047-59	TRANSISTOR STP5NB40FP			
		< RESISTOR >			
R8100	1-216-813-11	RES-CHIP	220	5%	1/16W
R8101	1-216-813-11	RES-CHIP	220	5%	1/16W
R8102	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8103	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8104	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8105	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8106	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8107	1-218-863-11	RES-CHIP	4.7K	0.5%	1/10W
R8108	1-218-863-11	RES-CHIP	4.7K	0.5%	1/10W
R8109	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8110	1-208-814-91	METAL CHIP	22K	0.5%	1/10W
R8111	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8112	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8113	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8114	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8115	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8116	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8117	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8118	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8119	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8120	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8121	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8122	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8123	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8124	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8125	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8126	1-216-815-11	RES-CHIP	330	5%	1/16W
R8127	1-208-794-11	METAL CHIP	3.3K	0.5%	1/10W
R8128	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8129	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8130	1-218-912-11	METAL CHIP	510K	0.5%	1/10W
R8131	1-216-815-11	RES-CHIP	330	5%	1/16W
R8132	1-216-815-11	RES-CHIP	330	5%	1/16W
R8133	1-216-815-11	RES-CHIP	330	5%	1/16W
R8136	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8137	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8138	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8139	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R8140	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8143	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8144	1-216-849-11	RES-CHIP	220K	5%	1/16W
R8145	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8146	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R8149	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8153	1-216-295-91	SHORT	0		
R8154	1-208-782-11	METAL CHIP	1K	0.5%	1/10W
R8155	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8158	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W
R8159	1-216-295-91	SHORT	0		
R8160	1-216-295-91	SHORT	0		
R8161	1-208-804-11	METAL CHIP	8.2K	0.5%	1/10W
R8162	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8163	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8165	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8168	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8169	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R8170	1-216-815-11	RES-CHIP	330	5%	1/16W
R8171	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8174	1-216-837-11	RES-CHIP	22K	5%	1/16W
R8175	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R8176	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8177	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8179	1-216-295-91	SHORT	0		
R8180	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8181	1-216-295-91	SHORT	0		
R8182	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8183	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8186	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8188	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8189	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8190	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8191	1-215-925-11	METAL OXIDE	22K	5%	3W
R8196	1-249-377-11	CARBON	0.47	5%	1/4W
R8197	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8204	1-216-864-11	SHORT	0		
R8205	1-216-864-11	SHORT	0		
R8206	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8207	1-216-853-11	RES-CHIP	470K	5%	1/16W
R8210	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8211	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8212	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8216	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8217	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8218	1-216-295-91	SHORT	0		
R8219	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8220	1-216-834-11	RES-CHIP	12K	5%	1/16W
R8221	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8223	1-162-927-11	CERAMIC CHIP	100PF	5.00%	
R8224	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8456	1-216-845-11	RES-CHIP	100K	5%	1/16W
R8457	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R8458	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8459	1-216-825-11	RES-CHIP	2.2K	5%	1/16W

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8800	1-247-895-91	CARBON	470K	5%	1/4W
R8804	1-249-408-11	CARBON	180	5%	1/4W
R8805	1-249-408-11	CARBON	180	5%	1/4W
R8806	1-249-411-11	CARBON	330	5%	1/4W
R8807	1-249-411-11	CARBON	330	5%	1/4W
R8808	1-260-340-11	CARBON	10K	5%	1/2W
R8809	1-260-340-11	CARBON	10K	5%	1/2W
R8810	1-215-895-11	METAL OXIDE	3.3K	5%	2W
R8811	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R8812	1-215-896-00	METAL OXIDE	4.7K	5%	2W
R8813	1-216-460-11	METAL OXIDE	3.9K	5%	2W
R8814	1-215-880-00	METAL OXIDE	10	5%	2W
R8815	1-215-880-00	METAL OXIDE	10	5%	2W
R8816	1-216-365-00	METAL OXIDE	0.47	5%	2W
R8817	1-216-361-00	METAL OXIDE	0.22	5%	2W
R8818	1-249-405-11	CARBON	100	5%	1/4W
R8819	1-247-807-31	CARBON	100	5%	1/4W
R8831	1-260-124-11	CARBON	120K	5%	1/2W
R8833	1-202-972-61	FUSIBLE	1	5%	1/4W
R8834	1-260-288-11	CARBON	0.47	5%	1/2W
R8835	1-260-288-11	CARBON	0.47	5%	1/2W
R8836	1-249-429-11	CARBON	10K	5%	1/4W
R8837	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8838	1-214-905-11	METAL	47K	1%	1/2W
R8839	1-215-894-11	METAL OXIDE	2.2K	5%	2W
R8840	1-249-421-11	CARBON	2.2K	5%	1/4W
R8842	1-260-123-11	CARBON	100K	5%	1/2W
R8843	1-216-833-11	RES-CHIP	10K	5%	1/16W
R8844	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8845	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8851	1-260-123-11	CARBON	100K	5%	1/2W
R8852	1-260-123-11	CARBON	100K	5%	1/2W
R8853	1-260-123-11	CARBON	100K	5%	1/2W
R8854	1-249-425-11	CARBON	4.7K	5%	1/4W
R8856	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8857	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8858	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8859	1-216-485-11	METAL OXIDE	5.6K	5%	3W
R8865	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8866	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8867	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R8885	1-208-854-11	METAL CHIP	1M	0.5%	1/10W
R8886	1-218-760-11	METAL CHIP	220K	0.5%	1/10W
R8887	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8888	1-249-441-11	CARBON	100K	5%	1/4W
R8895	1-249-443-11	CARBON	0.47	5%	1/4W
R8896	1-249-443-11	CARBON	0.47	5%	1/4W
R8897	1-215-489-00	METAL	680K	1%	1/4W
R8898	1-215-493-00	METAL	1M	1%	1/4W
R8899	1-215-493-00	METAL	1M	1%	1/4W

REF.NO.		PART.NO	DESCRIPTION	REMARK
			< TRANSFORMER >	
T8800	⚠	1-453-383-11	TRANSFORMER ASSY, FLYBACK (NX-4522//Z214)	
T8801		1-437-430-11	TRANSFORMER, FERRITE (HDT)	
T8802		1-437-430-11	TRANSFORMER, FERRITE (HDT)	
T8852		1-433-487-11	TRANSFORMER, FERRITE (DFT)	

*A-1644-126-A VM Board, Complete

		4-382-854-01	SCREW (M3X8), P, SW (+)	
			< CAPACITOR >	
C5400		1-107-883-11	ELECT 330UF	20.00% 16V
C5401		1-126-935-11	ELECT 470UF	20.00% 16V
C5402		1-137-150-11	MYLAR 0.01UF	5.00% 50V
C5403		1-126-935-11	ELECT 470UF	20.00% 6.3V
C5405		1-126-933-11	ELECT 100UF	20.00% 16V
C5406		1-126-935-11	ELECT 470UF	20.00% 6.3V
C5407		1-107-364-11	MYLAR 0.01UF	10.00% 200V
C5408		1-107-364-11	MYLAR 0.01UF	10.00% 200V
C5409		1-107-649-11	ELECT 2.2UF	20.00% 250V
C5410		1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5411		1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5412		1-126-935-11	ELECT 470UF	20.00% 16V
C5413		1-126-935-11	ELECT 470UF	20.00% 16V
C5414		1-107-652-11	ELECT 10UF	20.00% 250V
C5415		1-107-363-91	MYLAR 0.0068UF	10.00% 200V
C5417		1-102-514-11	CERAMIC 22PF	5.00% 50V
C5418		1-102-947-00	CERAMIC 10PF	0.50PF 50V
			< CONNECTOR >	
CN5402		*1-564-506-11	PLUG, CONNECTOR 3P	
CN5444		*1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
CN5602		*1-564-508-11	PLUG, CONNECTOR 5P	
			< DIODE >	
D5400		8-719-991-33	DIODE 1SS133T-77	
D5401		8-719-510-02	DIODE D1NS4	
D5402		1-535-143-61	LEAD, JUMPER (5.0MM)	
D5403		8-719-991-33	DIODE 1SS133T-77	
D5404		8-719-991-33	DIODE 1SS133T-77	
D5405		8-719-924-11	DIODE MTZJ-T-77-22	
D5406		8-719-924-11	DIODE MTZJ-T-77-22	
			< FERRITE BEAD >	
FB5400		1-535-143-61	LEAD, JUMPER (5.0MM)	
FB5401		1-535-143-61	LEAD, JUMPER (5.0MM)	

REF.NO.	PART.NO	DESCRIPTION	REMARK
	< COIL >		
L5400	1-410-784-41	INDUCTOR 0.18UH	
L5401	1-408-602-31	INDUCTOR 8.2UH	
	< TRANSISTOR >		
Q5400	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5404	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5405	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5406	8-729-045-05	TRANSISTOR 2SA2005	
Q5407	8-729-045-04	TRANSISTOR 2SC5511	
Q5408	8-729-026-39	TRANSISTOR 2SA933AS-QT	
Q5409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
	< RESISTOR >		
R5401	1-247-843-11	CARBON 3.3K 5%	1/4W
R5402	1-249-413-11	CARBON 470 5%	1/4W
R5403	1-249-393-11	CARBON 10 5%	1/4W
R5404	1-249-420-11	CARBON 1.8K 5%	1/4W
R5405	1-249-425-11	CARBON 4.7K 5%	1/4W
R5406	1-249-425-11	CARBON 4.7K 5%	1/4W
R5407	1-249-399-11	CARBON 33 5%	1/4W
R5408	1-247-807-31	CARBON 100 5%	1/4W
R5409	1-249-409-11	CARBON 220 5%	1/4W
R5410	1-249-401-11	CARBON 47 5%	1/4W
R5411	1-249-401-11	CARBON 47 5%	1/4W
R5412	1-249-429-11	CARBON 10K 5%	1/4W
R5413	1-249-414-11	CARBON 560 5%	1/4W
R5414	1-249-432-11	CARBON 18K 5%	1/4W
R5415	1-260-316-51	CARBON 100 5%	1/2W
R5416	1-249-388-11	CARBON 3.9 5%	1/4W
R5417	1-249-432-11	CARBON 18K 5%	1/4W
R5418	1-249-414-11	CARBON 560 5%	1/4W
R5419	1-249-421-11	CARBON 2.2K 5%	1/4W
R5420	1-249-421-11	CARBON 2.2K 5%	1/4W
R5421	1-249-386-11	CARBON 2.7 5%	1/4W
R5422	1-249-405-11	CARBON 100 5%	1/4W
R5423	1-215-915-11	METAL OXIDE 470 5%	3W
R5425	1-535-143-61	LEAD, JUMPER (5.0MM)	
R5427	1-249-401-11	CARBON 47 5%	1/4W
R5428	1-249-413-11	CARBON 470 5%	1/4W
R5429	1-249-413-11	CARBON 470 5%	1/4W
R5430	1-249-417-11	CARBON 1K 5%	1/4W
R5432	1-249-415-11	CARBON 680 5%	1/4W
R5433	1-249-400-11	CARBON 39 5%	1/4W
R5434	1-249-395-11	CARBON 15 5%	1/4W

REF.NO.	PART.NO	DESCRIPTION	REMARK
***A-1651-144-A**	**J1 Board, Complete**		
	< CAPACITOR >		
C8105	1-126-933-11	ELECT 100UF	20.00% 16V
C8106	1-126-933-11	ELECT 100UF	20.00% 16V
C8107	1-126-935-11	ELECT 470UF	20.00% 16V
C8108	1-126-933-11	ELECT 100UF	20.00% 16V
C8109	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8110	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C8111	1-126-933-11	ELECT 100UF	20.00% 16V
C8800	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8801	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8802	1-126-947-11	ELECT 47UF	20.00% 25V
C8803	1-126-947-11	ELECT 47UF	20.00% 25V
C8804	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8805	1-126-947-11	ELECT 47UF	20.00% 25V
C8807	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C8808	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8809	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V
C8810	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8811	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8812	1-126-961-11	ELECT 2.2UF	20.00% 50V
C8813	1-126-947-11	ELECT 47UF	20.00% 25V
C8814	1-126-947-11	ELECT 47UF	20.00% 25V
C8815	1-126-947-11	ELECT 47UF	20.00% 25V
C8816	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8817	1-126-964-11	ELECT 10UF	20.00% 50V
C8818	1-126-947-11	ELECT 47UF	20.00% 25V
C8819	1-107-682-11	CERAMIC CHIP 1UF	10.00% 16V
C8820	1-126-947-11	ELECT 47UF	20.00% 25V
C8821	1-164-346-11	CERAMIC CHIP 1UF	16V
C8822	1-126-963-11	ELECT 4.7UF	20.00% 50V
C8824	1-163-247-91	CERAMIC CHIP 68PF	5.00% 50V
C8825	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8826	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8827	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8828	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8829	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V
C8830	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8831	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8832	1-126-947-11	ELECT 47UF	20.00% 25V
C8833	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8834	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8835	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8836	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8837	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8838	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8839	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8840	1-164-156-11	CERAMIC CHIP 0.1UF	25V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8841	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8842	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8843	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8844	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C8845	1-162-974-11	CERAMIC CHIP 0.01UF	50V
C8850	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C8858	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8859	1-126-947-11	ELECT 47UF	20.00% 25V
C8860	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8863	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8864	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8865	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8866	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8867	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8868	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8869	1-126-964-11	ELECT 10UF	20.00% 50V
C8870	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8871	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8872	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8873	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8874	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8875	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8876	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8877	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8878	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8880	1-126-947-11	ELECT 47UF	20.00% 25V
C8881	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8882	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8884	1-104-665-11	ELECT 100UF	20.00% 25V
C8885	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8887	1-164-346-11	CERAMIC CHIP 1UF	16V
C8888	1-164-346-11	CERAMIC CHIP 1UF	16V
C8889	1-126-947-11	ELECT 47UF	20.00% 25V
C8890	1-164-346-11	CERAMIC CHIP 1UF	16V
C8891	1-126-947-11	ELECT 47UF	20.00% 25V
C8892	1-164-346-11	CERAMIC CHIP 1UF	16V
C8893	1-164-346-11	CERAMIC CHIP 1UF	16V
C8894	1-164-346-11	CERAMIC CHIP 1UF	16V
C8895	1-164-346-11	CERAMIC CHIP 1UF	16V
C8896	1-164-346-11	CERAMIC CHIP 1UF	16V
C8897	1-164-346-11	CERAMIC CHIP 1UF	16V
C8898	1-164-346-11	CERAMIC CHIP 1UF	16V
C8899	1-164-346-11	CERAMIC CHIP 1UF	16V
C8900	1-164-346-11	CERAMIC CHIP 1UF	16V
C8901	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8902	1-164-346-11	CERAMIC CHIP 1UF	16V
C8903	1-126-947-11	ELECT 47UF	20.00% 25V
C8904	1-164-346-11	CERAMIC CHIP 1UF	16V
C8905	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8906	1-126-964-11	ELECT 10UF	20.00% 50V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8907	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8909	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8910	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8911	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8912	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V
C8913	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8914	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8915	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8916	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8917	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8918	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8919	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8920	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8921	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8922	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8923	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C8924	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
C8934	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8935	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8937	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8938	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8939	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8940	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
C8947	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8948	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8949	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8950	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8951	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8952	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8953	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8954	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8955	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8957	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8958	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C8959	1-107-910-11	ELECT 100UF	20.00% 50V
C8960	1-107-910-11	ELECT 100UF	20.00% 50V
C8961	1-104-665-11	ELECT 100UF	20.00% 25V
C8962	1-104-665-11	ELECT 100UF	20.00% 25V
C8963	1-104-665-11	ELECT 100UF	20.00% 25V
C8964	1-126-947-11	ELECT 47UF	20.00% 25V
C8965	1-104-665-11	ELECT 100UF	20.00% 25V
C8966	1-104-665-11	ELECT 100UF	20.00% 25V
C8967	1-104-665-11	ELECT 100UF	20.00% 25V
C8968	1-126-947-11	ELECT 47UF	20.00% 25V
C8969	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C8970	1-104-665-11	ELECT 100UF	20.00% 25V
C8971	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8979	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8980	1-162-962-11	CERAMIC CHIP 470PF	10.00% 50V
C8982	1-104-665-11	ELECT 100UF	20.00% 25V

REF.NO.	PART.NO	DESCRIPTION	REMARK
C8983	1-104-665-11	ELECT 100UF	20.00% 25V
C8984	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8986	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8987	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8988	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C8989	1-126-947-11	ELECT 47UF	20.00% 25V
C8990	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8991	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8992	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C8996	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C8999	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9001	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9093	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9094	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9095	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C9096	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C9097	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9098	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9099	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C9101	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9102	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9103	1-162-915-11	CERAMIC CHIP 10PF	0.50PF 50V
C9104	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V
C9105	1-107-715-11	ELECT 22UF	20.00% 16V
C9106	1-126-947-11	ELECT 47UF	20.00% 25V
C9107	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C9108	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
		< CONNECTOR >	
CN8805	1-793-498-11	CONNECTOR, BOARD TO BOARD 50P	
CN8806	1-815-672-11	CONNECTOR, RGB 21P	
		< DIODE >	
D8800	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8801	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8802	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8803	8-719-108-12	DIODE RD9.1EW	
D8805	8-719-158-49	DIODE RD12SB2	
D8806	8-719-158-49	DIODE RD12SB2	
D8807	8-719-158-49	DIODE RD12SB2	
D8808	8-719-158-49	DIODE RD12SB2	
D8809	8-719-158-49	DIODE RD12SB2	
D8810	8-719-158-49	DIODE RD12SB2	
D8811	8-719-158-49	DIODE RD12SB2	
D8812	8-719-158-49	DIODE RD12SB2	
D8813	8-719-158-49	DIODE RD12SB2	
D8814	8-719-158-49	DIODE RD12SB2	
D8815	8-719-158-49	DIODE RD12SB2	
D8816	8-719-158-49	DIODE RD12SB2	
D8817	8-719-158-49	DIODE RD12SB2	
D8818	8-719-158-49	DIODE RD12SB2	
D8819	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8820	8-719-158-49	DIODE RD12SB2	
D8821	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8822	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8823	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8824	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8825	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8826	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8827	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8828	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8829	8-719-056-85	DIODE UDZ-TE-17-8.2B	
D8830	8-719-158-49	DIODE RD12SB2	
D8831	8-719-158-49	DIODE RD12SB2	
D8832	8-719-158-49	DIODE RD12SB2	
D8833	8-719-158-49	DIODE RD12SB2	
D8839	8-719-108-12	DIODE RD9.1EW	
		< FERRITE BEAD >	
FB8800	1-469-869-21	FERRITE 0UH	
		< FILTER >	
FL8800	1-236-071-11	ENCAPSULATED COMPONENT	
FL8801	1-236-071-11	ENCAPSULATED COMPONENT	
FL8802	1-236-071-11	ENCAPSULATED COMPONENT	
FL8803	1-236-071-11	ENCAPSULATED COMPONENT	
FL8804	1-236-071-11	ENCAPSULATED COMPONENT	
FL8805	1-233-765-21	FILTER	
FL8806	1-233-768-21	FILTER	
FL8807	1-233-766-21	FILTER	
FL8808	1-236-071-11	ENCAPSULATED COMPONENT	
FL8809	1-236-071-11	ENCAPSULATED COMPONENT	
FL8811	1-236-071-11	ENCAPSULATED COMPONENT	
		< IC >	
IC8101	8-759-576-76	IC TDA2822D013TR	
IC8800	8-752-072-94	IC CXA1875AM-T4	
IC8801	8-752-096-06	IC CXA2163Q-T6	
IC8802	8-759-485-79	IC TC7SET08FU(TE85)	
IC8803	8-752-386-17	IC CXD2064Q	
IC8806	8-752-096-83	IC CXA2149AQ-TL	
IC8809	8-759-439-64	IC HEF4053BT	
IC8810	8-759-587-03	IC TDA8601T	
		< JACK >	
J8800	1-770-989-11	JACK, PIN 2P	

REF.NO.	PART.NO	DESCRIPTION			REMARK
	< COIL >				
L8800	1-412-006-31	INDUCTOR	10UH		
L8804	1-412-539-11	INDUCTOR	150UH		
L8805	1-412-539-11	INDUCTOR	150UH		
L8806	1-412-539-11	INDUCTOR	150UH		
	< TRANSISTOR >				
Q8802	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8803	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8806	1-801-806-11	TRANSISTOR	DTC144EKA		
Q8807	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8808	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8809	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8810	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8811	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8812	8-729-038-96	TRANSISTOR	IMZ1A-T109		
Q8813	8-729-038-96	TRANSISTOR	IMZ1A-T109		
Q8814	8-729-038-96	TRANSISTOR	IMZ1A-T109		
Q8815	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8816	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8817	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8822	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8823	8-729-038-96	TRANSISTOR	IMZ1A-T109		
Q8824	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8826	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8827	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8828	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8829	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8830	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8831	8-729-216-22	TRANSISTOR	2SA1162-G		
Q8833	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8834	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q8835	1-801-806-11	TRANSISTOR	DTC144EKA		
Q8837	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
	< RESISTOR >				
R8109	1-249-389-11	CARBON	4.7	5%	1/4W
R8110	1-249-389-11	CARBON	4.7	5%	1/4W
R8115	1-216-029-00	RES-CHIP	150	5%	1/10W
R8116	1-216-029-00	RES-CHIP	150	5%	1/10W
R8117	1-216-029-00	RES-CHIP	150	5%	1/10W
R8118	1-216-029-00	RES-CHIP	150	5%	1/10W
R8800	1-216-047-91	RES-CHIP	820	5%	1/10W
R8801	1-218-285-11	RES-CHIP	75	5%	1/16W
R8802	1-216-813-11	RES-CHIP	220	5%	1/16W
R8804	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8805	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R8806	1-216-864-11	SHORT	0		
R8807	1-216-809-11	RES-CHIP	100	5%	1/16W
R8808	1-216-809-11	RES-CHIP	100	5%	1/16W
R8809	1-216-047-91	RES-CHIP	820	5%	1/10W
R8810	1-216-864-11	SHORT	0		
R8811	1-216-805-11	RES-CHIP	47	5%	1/16W
R8813	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8814	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8816	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8817	1-216-864-11	SHORT	0		
R8818	1-216-857-11	RES-CHIP	1M	5%	1/16W
R8819	1-216-864-11	SHORT	0		
R8820	1-216-864-11	SHORT	0		
R8821	1-216-864-11	SHORT	0		
R8822	1-216-817-11	RES-CHIP	470	5%	1/16W
R8823	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8824	1-216-805-11	RES-CHIP	47	5%	1/16W
R8825	1-216-805-11	RES-CHIP	47	5%	1/16W
R8826	1-216-817-11	RES-CHIP	470	5%	1/16W
R8827	1-216-817-11	RES-CHIP	470	5%	1/16W
R8828	1-216-817-11	RES-CHIP	470	5%	1/16W
R8829	1-216-805-11	RES-CHIP	47	5%	1/16W
R8830	1-216-805-11	RES-CHIP	47	5%	1/16W
R8831	1-216-063-91	RES-CHIP	3.9K	5%	1/10W
R8832	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8833	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8835	1-216-045-00	RES-CHIP	680	5%	1/10W
R8837	1-216-091-00	RES-CHIP	56K	5%	1/10W
R8838	1-216-864-11	SHORT	0		
R8839	1-216-818-11	RES-CHIP	560	5%	1/16W
R8841	1-216-031-00	RES-CHIP	180	5%	1/10W
R8842	1-216-830-11	RES-CHIP	5.6K	5%	1/16W
R8843	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8844	1-216-864-11	SHORT	0		
R8847	1-216-864-11	SHORT	0		
R8849	1-216-037-00	RES-CHIP	330	5%	1/10W
R8850	1-216-817-11	RES-CHIP	470	5%	1/16W
R8851	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8852	1-216-817-11	RES-CHIP	470	5%	1/16W
R8853	1-216-813-11	RES-CHIP	220	5%	1/16W
R8855	1-216-864-11	SHORT	0		
R8856	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8857	1-216-820-11	RES-CHIP	820	5%	1/16W
R8858	1-216-820-11	RES-CHIP	820	5%	1/16W
R8859	1-216-824-11	RES-CHIP	1.8K	5%	1/16W
R8860	1-216-822-11	RES-CHIP	1.2K	5%	1/16W
R8861	1-216-053-00	RES-CHIP	1.5K	5%	1/10W
R8862	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8866	1-216-809-11	RES-CHIP	100	5%	1/16W
R8868	1-216-864-11	SHORT	0		
R8870	1-216-839-11	RES-CHIP	33K	5%	1/16W
R8871	1-216-864-11	SHORT	0		

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8877	1-216-864-11	SHORT	0		
R8880	1-216-809-11	RES-CHIP	100	5%	1/16W
R8881	1-216-817-11	RES-CHIP	470	5%	1/16W
R8882	1-216-817-11	RES-CHIP	470	5%	1/16W
R8883	1-216-817-11	RES-CHIP	470	5%	1/16W
R8884	1-216-817-11	RES-CHIP	470	5%	1/16W
R8886	1-216-809-11	RES-CHIP	100	5%	1/16W
R8887	1-216-839-11	RES-CHIP	33K	5%	1/16W
R8890	1-211-985-11	METAL CHIP	47	0.5%	1/10W
R8891	1-218-839-11	METAL CHIP	470	0.5%	1/10W
R8893	1-218-827-11	METAL CHIP	150	0.5%	1/10W
R8894	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R8895	1-216-851-11	RES-CHIP	330K	5%	1/16W
R8896	1-216-836-11	RES-CHIP	18K	5%	1/16W
R8897	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8898	1-216-864-11	SHORT	0		
R8900	1-216-864-11	SHORT	0		
R8902	1-218-285-11	RES-CHIP	75	5%	1/16W
R8903	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8904	1-216-805-11	RES-CHIP	47	5%	1/16W
R8905	1-216-813-11	RES-CHIP	220	5%	1/16W
R8907	1-216-821-11	RES-CHIP	1K	5%	1/16W
R8908	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8909	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8910	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8911	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8912	1-216-843-11	RES-CHIP	68K	5%	1/16W
R8913	1-216-843-11	RES-CHIP	68K	5%	1/16W
R8914	1-216-840-11	RES-CHIP	39K	5%	1/16W
R8915	1-216-864-11	SHORT	0		
R8916	1-216-836-11	RES-CHIP	18K	5%	1/16W
R8917	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8919	1-216-827-11	RES-CHIP	3.3K	5%	1/16W
R8921	1-216-809-11	RES-CHIP	100	5%	1/16W
R8922	1-216-809-11	RES-CHIP	100	5%	1/16W
R8923	1-216-864-11	SHORT	0		
R8925	1-216-864-11	SHORT	0		
R8926	1-216-864-11	SHORT	0		
R8931	1-216-816-11	RES-CHIP	390	5%	1/16W
R8932	1-216-864-11	SHORT	0		
R8933	1-216-816-11	RES-CHIP	390	5%	1/16W
R8934	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8935	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8936	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8937	1-216-814-11	RES-CHIP	270	5%	1/16W
R8938	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8939	1-216-814-11	RES-CHIP	270	5%	1/16W
R8940	1-216-864-11	SHORT	0		
R8941	1-216-809-11	RES-CHIP	100	5%	1/16W
R8942	1-218-285-11	RES-CHIP	75	5%	1/16W
R8944	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8945	1-218-285-11	RES-CHIP	75	5%	1/16W
R8946	1-216-813-11	RES-CHIP	220	5%	1/16W
R8947	1-216-813-11	RES-CHIP	220	5%	1/16W
R8948	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8949	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8950	1-218-285-11	RES-CHIP	75	5%	1/16W
R8951	1-218-285-11	RES-CHIP	75	5%	1/16W
R8952	1-218-285-11	RES-CHIP	75	5%	1/16W
R8953	1-218-285-11	RES-CHIP	75	5%	1/16W
R8954	1-218-285-11	RES-CHIP	75	5%	1/16W
R8955	1-216-813-11	RES-CHIP	220	5%	1/16W
R8956	1-216-813-11	RES-CHIP	220	5%	1/16W
R8958	1-216-805-11	RES-CHIP	47	5%	1/16W
R8959	1-216-816-11	RES-CHIP	390	5%	1/16W
R8960	1-216-864-11	SHORT	0		
R8961	1-216-816-11	RES-CHIP	390	5%	1/16W
R8962	1-216-864-11	SHORT	0		
R8963	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8964	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8965	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8966	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8967	1-216-814-11	RES-CHIP	270	5%	1/16W
R8968	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8969	1-216-814-11	RES-CHIP	270	5%	1/16W
R8970	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8971	1-216-809-11	RES-CHIP	100	5%	1/16W
R8972	1-216-801-11	RES-CHIP	22	5%	1/16W
R8973	1-218-285-11	RES-CHIP	75	5%	1/16W
R8974	1-218-285-11	RES-CHIP	75	5%	1/16W
R8975	1-216-813-11	RES-CHIP	220	5%	1/16W
R8976	1-216-816-11	RES-CHIP	390	5%	1/16W
R8977	1-216-864-11	SHORT	0		
R8978	1-218-285-11	RES-CHIP	75	5%	1/16W
R8979	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8980	1-216-805-11	RES-CHIP	47	5%	1/16W
R8981	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8982	1-216-814-11	RES-CHIP	270	5%	1/16W
R8983	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W
R8984	1-216-816-11	RES-CHIP	390	5%	1/16W
R8985	1-216-864-11	SHORT	0		
R8986	1-216-809-11	RES-CHIP	100	5%	1/16W
R8987	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8988	1-218-285-11	RES-CHIP	75	5%	1/16W
R8989	1-216-813-11	RES-CHIP	220	5%	1/16W
R8990	1-218-285-11	RES-CHIP	75	5%	1/16W
R8991	1-216-071-00	RES-CHIP	8.2K	5%	1/10W
R8992	1-216-113-00	RES-CHIP	470K	5%	1/10W
R8993	1-216-814-11	RES-CHIP	270	5%	1/16W
R8994	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W

REF.NO.	PART.NO	DESCRIPTION			REMARK
R8996	1-216-805-11	RES-CHIP	47	5%	1/16W
R8997	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R8998	1-216-841-11	RES-CHIP	47K	5%	1/16W
R8999	1-216-836-11	RES-CHIP	18K	5%	1/16W
R9000	1-216-073-91	RES-CHIP	10K	5%	1/10W
R9001	1-216-841-11	RES-CHIP	47K	5%	1/16W
R9002	1-216-059-00	RES-CHIP	2.7K	5%	1/10W
R9003	1-216-817-11	RES-CHIP	470	5%	1/16W
R9004	1-218-285-11	RES-CHIP	75	5%	1/16W
R9005	1-216-813-11	RES-CHIP	220	5%	1/16W
R9006	1-216-832-11	RES-CHIP	8.2K	5%	1/16W
R9007	1-216-839-11	RES-CHIP	33K	5%	1/16W
R9008	1-216-849-11	RES-CHIP	220K	5%	1/16W
R9009	1-216-864-11	SHORT	0		
R9010	1-216-864-11	SHORT	0		
R9018	1-216-864-11	SHORT	0		
R9020	1-216-809-11	RES-CHIP	100	5%	1/16W
R9021	1-216-809-11	RES-CHIP	100	5%	1/16W
R9022	1-216-864-11	SHORT	0		
R9023	1-216-864-11	SHORT	0		
R9024	1-216-833-11	RES-CHIP	10K	5%	1/16W
R9026	1-216-815-11	RES-CHIP	330	5%	1/16W
R9029	1-216-816-11	RES-CHIP	390	5%	1/16W
R9030	1-216-837-11	RES-CHIP	22K	5%	1/16W
R9031	1-216-837-11	RES-CHIP	22K	5%	1/16W
R9032	1-218-725-11	RES-CHIP	24K	5%	1/16W
R9033	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R9034	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R9035	1-218-843-11	METAL CHIP	680	0.5%	1/10W
R9036	1-216-817-11	RES-CHIP	470	5%	1/16W
R9037	1-216-817-11	RES-CHIP	470	5%	1/16W
R9038	1-216-817-11	RES-CHIP	470	5%	1/16W
R9039	1-216-809-11	RES-CHIP	100	5%	1/16W
R9040	1-216-809-11	RES-CHIP	100	5%	1/16W
R9043	1-216-821-11	RES-CHIP	1K	5%	1/16W
R9045	1-216-821-11	RES-CHIP	1K	5%	1/16W
R9051	1-216-841-11	RES-CHIP	47K	5%	1/16W
R9052	1-216-841-11	RES-CHIP	47K	5%	1/16W
R9053	1-216-839-11	RES-CHIP	33K	5%	1/16W
R9055	1-216-841-11	RES-CHIP	47K	5%	1/16W
R9059	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9063	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9064	1-216-805-11	RES-CHIP	47	5%	1/16W
R9069	1-216-838-11	RES-CHIP	27K	5%	1/16W
R9070	1-216-864-11	SHORT	0		
R9076	1-216-815-11	RES-CHIP	330	5%	1/16W
R9077	1-216-808-11	RES-CHIP	82	5%	1/16W
R9081	1-216-864-11	SHORT	0		
R9083	1-216-864-11	SHORT	0		
R9084	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9085	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9086	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R9088	1-216-831-11	RES-CHIP	6.8K	5%	1/16W
R9089	1-216-797-11	RES-CHIP	10	5%	1/16W
R9090	1-216-797-11	RES-CHIP	10	5%	1/16W
R9094	1-216-809-11	RES-CHIP	100	5%	1/16W
R9095	1-216-833-11	RES-CHIP	10K	5%	1/16W
R9099	1-216-809-11	RES-CHIP	100	5%	1/16W
R9100	1-216-864-11	SHORT	0		
R9101	1-216-864-11	SHORT	0		
R9102	1-216-833-11	RES-CHIP	10K	5%	1/16W
R9103	1-216-833-11	RES-CHIP	10K	5%	1/16W
R9104	1-216-025-11	RES-CHIP	100	5%	1/10W
R9105	1-216-025-11	RES-CHIP	100	5%	1/10W
R9106	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9107	1-216-825-11	RES-CHIP	2.2K	5%	1/16W
R9108	1-216-837-11	RES-CHIP	22K	5%	1/16W
R9110	1-216-813-11	RES-CHIP	220	5%	1/16W
R9111	1-216-813-11	RES-CHIP	220	5%	1/16W
R9112	1-216-864-11	SHORT	0		
R9113	1-216-864-11	SHORT	0		
R9114	1-216-864-11	SHORT	0		
R9115	1-216-864-11	SHORT	0		
R9116	1-216-864-11	SHORT	0		
R9117	1-216-864-11	SHORT	0		
R9118	1-216-864-11	SHORT	0		
R9119	1-216-864-11	SHORT	0		
R9120	1-216-864-11	SHORT	0		
R9121	1-216-864-11	SHORT	0		
R9126	1-162-862-11	CERAMIC CHIP	470PF		10.00%
R9142	1-216-864-11	SHORT	0		
R9143	1-216-864-11	SHORT	0		
R9144	1-216-864-11	SHORT	0		
R9147	1-216-805-11	RES-CHIP	47	5%	1/16W
R9148	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R9149	1-218-285-11	RES-CHIP	75	5%	1/16W
R9150	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
R9151	1-216-864-11	SHORT	0		
R9170	1-216-295-91	SHORT	0		
R9171	1-216-295-91	SHORT	0		

< CRYSTAL >

X8800	1-781-612-11	VIBRATOR, CRYSTAL	

***A-1652-081-A N1 Board, Complete**

< CAPACITOR >

C9000	1-126-205-11	ELECT CHIP	47UF	20.00% 6.3V
C9001	1-126-205-11	ELECT CHIP	47UF	20.00% 6.3V
C9002	1-107-826-11	CERAMIC CHIP	0.1UF	10.00% 16V

Note : The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

N1 **F1**

REF.NO.	PART.NO	DESCRIPTION	REMARK
C9003	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9004	1-126-205-11	ELECT CHIP 47UF	20.00% 6.3V
C9005	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9006	1-126-205-11	ELECT CHIP 47UF	20.00% 6.3V
C9007	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9008	1-126-205-11	ELECT CHIP 47UF	20.00% 6.3V
C9009	1-126-205-11	ELECT CHIP 47UF	20.00% 6.3V
C9010	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9011	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C9012	1-126-205-11	ELECT CHIP 47UF	20.00% 6.3V
C9013	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
		< CONNECTOR >	
CN9000	1-793-496-11	CONNECTOR, BOARD TO BOARD 20P	
CN9001	1-784-872-21	CONNECTOR,FFC(LIF(NON-ZIF))20P	
		< IC >	
IC9000	6-700-416-01	IC 74LVC374AD-T	
IC9001	6-700-416-01	IC 74LVC374AD-T	
IC9002	8-759-564-22	IC 74LVC00-PW	
IC9003	6-700-417-01	IC 74LVC163-PW	
IC9004	6-700-415-01	IC 74LVC377D-T	
IC9005	6-700-415-01	IC 74LVC377D-T	
IC9006	6-700-416-01	IC 74LVC374AD-T	
		< RESISTOR >	
R9000	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R9001	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R9002	1-216-825-11	RES-CHIP 2.2K 5%	1/16W
R9003	1-216-864-11	SHORT 0	
R9004	1-216-864-11	SHORT 0	
R9005	1-216-864-11	SHORT 0	
R9006	1-216-864-11	SHORT 0	
R9007	1-216-864-11	SHORT 0	
R9008	1-216-864-11	SHORT 0	
R9009	1-216-864-11	SHORT 0	
R9010	1-216-864-11	SHORT 0	
R9011	1-216-864-11	SHORT 0	
R9012	1-216-864-11	SHORT 0	
R9013	1-216-864-11	SHORT 0	
R9014	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9015	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9016	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9017	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9018	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9019	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9020	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9021	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9022	1-216-821-11	RES-CHIP 1K 5%	1/16W

REF.NO.	PART.NO	DESCRIPTION	REMARK
R9023	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9024	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9025	1-216-864-11	SHORT 0	
R9026	1-216-864-11	SHORT 0	
R9027	1-216-864-11	SHORT 0	
R9028	1-216-864-11	SHORT 0	
R9029	1-216-864-11	SHORT 0	
R9030	1-216-864-11	SHORT 0	
R9031	1-216-864-11	SHORT 0	
R9032	1-216-864-11	SHORT 0	
R9033	1-216-864-11	SHORT 0	
R9034	1-216-864-11	SHORT 0	
R9035	1-216-864-11	SHORT 0	
R9036	1-216-864-11	SHORT 0	
R9037	1-216-864-11	SHORT 0	
R9038	1-216-864-11	SHORT 0	
R9039	1-216-864-11	SHORT 0	
R9040	1-216-864-11	SHORT 0	
R9041	1-216-864-11	SHORT 0	
R9042	1-216-864-11	SHORT 0	
R9043	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9044	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9045	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9046	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9047	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9048	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9049	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9050	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9051	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9052	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9053	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9054	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9055	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9056	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9057	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9058	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9059	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9060	1-216-821-11	RES-CHIP 1K 5%	1/16W
R9062	1-216-864-11	SHORT 0	

*A-1624-108-A F1 Board, Complete (KD-32NS100/ KD-32NX100)

		< CAPACITOR >	
C401	1-113-924-11	CERAMIC 0.0047UF	20.00% 250V
		< CONNECTOR >	
CN401	△ *1-580-844-11	PIN, CONNECTOR (POWER)	
CN402	△ *1-691-292-11	PIN, CONNECTOR (PC BOARD) 3P	
CN403	1-695-915-11	TAB (CONTACT)	

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK
		< FUSE >	
F5401	⚠ 1-576-232-21	FUSE (H.B.C.) 5A/250V	
	*1-533-725-11	HOLDER, FUSE (F5401)	
		< RESISTOR >	
R401	⚠ 1-202-719-00	SOLID 1M 10% 1/2W	
		< SWITCH >	
S401	⚠ 1-571-433-21	SWITCH, PUSH (AC POWER)	
		< VARISTOR >	
VD401	⚠ 1-803-830-11	VARISTOR (ERZV14D621)	

*A-1646-247-A H1 Board, Complete (KD-32NS100/ KD-32NX100)

		< CAPACITOR >	
C7900	1-101-810-00	CERAMIC 100PF 5.00% 500V	
C7901	1-101-810-00	CERAMIC 100PF 5.00% 500V	
C7902	1-101-810-00	CERAMIC 100PF 5.00% 500V	
C7903	1-101-810-00	CERAMIC 100PF 5.00% 500V	
		< CONNECTOR >	
CN7102	*1-564-518-11	PLUG, CONNECTOR 3P	
CN7103	*1-564-522-11	PLUG, CONNECTOR 7P	
		< JACK >	
J7900	1-779-947-11	TERMINAL BLOCK, S	
		< RESISTOR >	
R7100	1-249-429-11	CARBON 10K 5% 1/4W	
R7101	1-249-425-11	CARBON 4.7K 5% 1/4W	
R7102	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7103	1-249-429-11	CARBON 10K 5% 1/4W	
R7104	1-249-425-11	CARBON 4.7K 5% 1/4W	
R7105	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7900	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7901	1-249-417-11	CARBON 1K 5% 1/4W	
R7902	1-247-895-91	CARBON 470K 5% 1/4W	
R7903	1-247-895-91	CARBON 470K 5% 1/4W	
R7904	1-535-143-61	LEAD, JUMPER (5.0MM)	
R7905	1-249-417-11	CARBON 1K 5% 1/4W	
R7906	1-535-143-61	LEAD, JUMPER (5.0MM)	
		< SWITCH >	
S7101	1-692-431-21	SWITCH, TACTILE	
S7102	1-692-431-21	SWITCH, TACTILE	
S7103	1-692-431-21	SWITCH, TACTILE	
S7104	1-692-431-21	SWITCH, TACTILE	
S7105	1-692-431-21	SWITCH, TACTILE	
S7106	1-692-431-21	SWITCH, TACTILE	

*A-1646-248-A H2 Board, Complete (KD-32NS100/ KD-32NX100)

	4-205-711-01	HOLDER, LED	
		< CAPACITOR >	
C7150	1-126-969-11	ELECT 220UF 20.00% 50V	
		< CONNECTOR >	
CN7150	*1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D7150	8-719-081-56	DIODE L-59SRSGC-CC	
D7152	8-719-109-89	DIODE RD5.6ESB2	
		< IC >	
IC7150	8-742-180-30	HYB IC SBX3081-51(20)	
		< TRANSISTOR >	
Q7150	8-729-029-56	TRANSISTOR DTA144ESA-TP	
Q7151	8-729-029-66	TRANSISTOR DTC114ESA-TP	
		< RESISTOR >	
R7150	1-249-409-11	CARBON 220 5% 1/4W	
R7151	1-249-411-11	CARBON 330 5% 1/4W	
R7152	1-249-437-11	CARBON 47K 5% 1/4W	
R7153	1-249-425-11	CARBON 4.7K 5% 1/4W	
R7154	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7155	1-247-807-31	CARBON 100 5% 1/4W	
R7156	1-249-411-11	CARBON 330 5% 1/4W	

*A-1646-249-A H3 Board, Complete (KD-32NS100/ KD-32NX100)

		< CAPACITOR >	
C7925	1-137-372-11	MYLAR 0.022UF 5.00% 50V	
C7926	1-137-372-11	MYLAR 0.022UF 5.00% 50V	
		< CONNECTOR >	
CN7104	*1-564-518-11	PLUG, CONNECTOR 3P	
		< JACK >	
J7925	1-785-448-11	JACK	

REF.NO.	PART.NO	DESCRIPTION	REMARK
	< COIL >		
L7925	1-414-183-41	INDUCTOR 10UH	
L7926	1-414-183-41	INDUCTOR 10UH	

***A-1646-258-A L Board, Complete (KD-32NS100)**

	< CAPACITOR >		
C1001	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1002	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1003	1-126-964-11	ELECT 10UF	20.00% 50V
C1004	1-164-388-91	CERAMIC CHIP 270PF	5.00% 50V
C1005	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1006	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1007	1-126-964-11	ELECT 10UF	20.00% 50V
C1008	1-164-492-11	CERAMIC CHIP 0.15UF	10.00% 16V
C1009	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1010	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1011	1-162-969-11	CERAMIC CHIP 0.0068UF	10.00% 25V
C1012	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1013	1-162-969-11	CERAMIC CHIP 0.0068UF	10.00% 25V
C1015	1-164-492-11	CERAMIC CHIP 0.15UF	10.00% 16V
C1016	1-164-388-91	CERAMIC CHIP 270PF	5.00% 50V
C1017	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1019	1-126-964-11	ELECT 10UF	20.00% 50V
C1023	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1024	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1025	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1026	1-126-964-11	ELECT 10UF	20.00% 50V
C1027	1-125-837-91	CERAMIC CHIP 1UF	10% 6.3V
C1028	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V
C1029	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1030	1-162-924-11	CERAMIC CHIP 56PF	5.00% 50V
C1031	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1032	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1033	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1036	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C1037	1-162-923-11	CERAMIC CHIP 47PF	5.00% 50V
C1039	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1040	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1041	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1042	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1043	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1044	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1045	1-104-514-11	MYLAR 0.22UF	10.00% 250V
C1046	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1047	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1048	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1049	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1052	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1053	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1054	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1055	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1056	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1057	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1058	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1059	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1060	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1061	1-126-964-11	ELECT 10UF	20.00% 50V
C1062	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C1063	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V
C1064	1-162-969-11	CERAMIC CHIP 0.0068UF	10.00% 25V
C1065	1-126-961-11	ELECT 2.2UF	20.00% 50V
C1068	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C1069	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C1072	1-126-964-11	ELECT 10UF	20.00% 50V
C1074	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C1075	1-124-779-00	ELECT CHIP 10UF	20.00% 16V
C1076	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
	< CONNECTOR >		
CN1000	1-785-720-11	JACK, TELEPHONE	
CN1002	*1-764-333-11	PLUG, CONNECTOR 10P	
CN1004	1-779-961-11	PIN, CONNECTOR (WITH PWB) 10P	
	< DIODE >		
D1004	8-719-977-81	DIODE UDZ-TE-17-33B	
D1005	8-719-064-76	DIODE MB6S	
	< FERRITE BEAD >		
FB001	1-469-458-91	INDUCTOR 0UH	
	< FILTER >		
FL1005	1-469-458-91	INDUCTOR 0UH	
FL1006	1-469-458-91	INDUCTOR 0UH	
	< IC >		
IC1001	8-759-595-38	IC CSP1034AHJ-11-DB	
IC1004	8-759-347-45	IC AS7C3256-15JC-T	
IC1005	8-759-347-45	IC AS7C3256-15JC-T	
IC1006	8-759-696-42	IC 1673TV8-28RDD-DB	
IC1009	8-759-667-76	IC M29F400BB70N1	
ISO100	8-749-011-34	PHOTO COUPLER TLP181(TPR)	
ISO101	8-749-011-34	PHOTO COUPLER TLP181(TPR)	
ISO104	8-749-011-34	PHOTO COUPLER TLP181(TPR)	
ISO105	8-719-054-40	PHOTO COUPLER TLP127(TPL)	

REF.NO.	PART.NO	DESCRIPTION			REMARK
	< COIL >				
L1001	1-410-992-11	INDUCTOR	0.82UH		
L1002	1-410-992-11	INDUCTOR	0.82UH		
L1003	1-410-992-11	INDUCTOR	0.82UH		
L1004	1-410-992-11	INDUCTOR	0.82UH		
	< TRANSISTOR >				
Q1000	8-729-052-78	TRANSISTOR	TISP4300M3BJ		
Q1001	8-729-056-21	TRANSISTOR	PZTA42		
Q1002	8-729-056-21	TRANSISTOR	PZTA42		
Q1003	8-729-120-28	TRANSISTOR	2SC2412K-T-146-Q		
Q1004	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
Q1005	8-729-120-28	TRANSISTOR	2SC2412K-T-146-Q		
Q1006	1-801-806-11	TRANSISTOR	DTC144EKA-T146		
	< RESISTOR >				
R1002	1-216-793-11	RES-CHIP	4.7	5%	1/16W
R1003	1-218-880-11	METAL CHIP	24K	0.5%	1/10W
R1005	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R1006	1-211-979-11	METAL CHIP	27	0.5%	1/10W
R1007	1-218-824-11	METAL CHIP	110	0.5%	1/10W
R1008	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1009	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1010	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1011	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1012	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R1013	1-218-831-11	METAL CHIP	220	0.5%	1/10W
R1014	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R1015	1-218-865-11	METAL CHIP	5.6K	0.5%	1/10W
R1016	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1017	1-218-725-11	RES-CHIP	24K	5%	1/16W
R1018	1-218-725-11	RES-CHIP	24K	5%	1/16W
R1019	1-216-864-11	SHORT	0		
R1021	1-218-847-11	METAL CHIP	1K	0.5%	1/10W
R1022	1-218-835-11	METAL CHIP	330	0.5%	1/10W
R1023	1-211-979-11	METAL CHIP	27	0.5%	1/10W
R1024	1-218-824-11	METAL CHIP	110	0.5%	1/10W
R1025	1-218-880-11	METAL CHIP	24K	0.5%	1/10W
R1027	1-218-874-11	METAL CHIP	13K	0.5%	1/10W
R1028	1-218-874-11	METAL CHIP	13K	0.5%	1/10W
R1029	1-216-864-11	SHORT	0		
R1034	1-216-864-11	SHORT	0		
R1035	1-216-806-11	RES-CHIP	56	5%	1/16W
R1036	1-216-793-11	RES-CHIP	4.7	5%	1/16W
R1037	1-216-806-11	RES-CHIP	56	5%	1/16W
R1040	1-216-806-11	RES-CHIP	56	5%	1/16W
R1041	1-216-806-11	RES-CHIP	56	5%	1/16W
R1042	1-216-829-11	RES-CHIP	4.7K	5%	1/16W
R1050	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1051	1-216-039-00	RES-CHIP	390	5%	1/10W
R1052	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1054	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1055	1-216-864-11	SHORT	0		
R1056	1-216-864-11	SHORT	0		
R1057	1-216-864-11	SHORT	0		
R1058	1-216-828-11	RES-CHIP	3.9K	5%	1/16W
R1059	1-220-397-11	RES-CHIP	4.7M	5%	1/16W
R1061	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1062	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1064	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1065	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1066	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1067	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1069	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1070	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1071	1-216-837-11	RES-CHIP	22K	5%	1/16W
R1079	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1081	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1084	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1087	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1088	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1094	1-216-039-00	RES-CHIP	390	5%	1/10W
R1095	1-216-864-11	SHORT	0		
R1097	1-216-845-11	RES-CHIP	100K	5%	1/16W
R1098	1-218-824-11	METAL CHIP	110	0.5%	1/10W
R1103	1-216-295-91	SHORT	0		
R1104	1-216-295-91	SHORT	0		
R1105	1-216-295-91	SHORT	0		
R1106	1-216-833-11	RES-CHIP	10K	5%	1/16W
R1107	1-216-817-11	RES-CHIP	470	5%	1/16W
R1108	1-216-833-11	RES-CHIP	10K	5%	1/16W
	< TRANSFORMER >				
T100	1-437-267-11	TRANSFORMER, ISOLATING			
	< CRYSTAL >				
X1001	1-781-745-21	VIBRATOR, CRYSTAL			

Note : The components identified by shading and marked ⚠ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK

MISCELLANEOUS

	1-529-408-11	SPEAKER (4.2X24CM)	
	1-424-855-11	COIL, CHOKE 29MMH	
⚠	1-792-389-11	CORD, POWER (KD-32NS100)	
⚠	1-776-204-12	CORD, POWER (FILTER) (KD-32DX100/32NX100)	
	8-598-529-01	FRONT END BTF-EU611 (KD-32DX100/32NX100)	
	8-598-585-00	FRONT END BTD-DU604 (KD-32DX100/32NX100)	
⚠	1-453-383-11	TRANSFORMER ASSY, FLYBACK (NX-4522//Z214)	
⚠	1-571-433-21	SWITCH, PUSH (AC POWER)	
⚠	1-451-480-11	DEFLECTION YOKE (Y32RVC2)	
	1-419-363-11	COIL, NA ROTATION	
	8-453-011-11	NECK ASSY, (NA299-M)	
⚠	1-424-888-11	COIL, DEGAUSSING	
⚠	1-251-317-63	CAP ASSY, HIGH-VOLTAGE	
⚠	8-735-079-05	PICTURE TUBE (W76LLZ060X)	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-425-032-00	MAGNET, DISK; 10MM Ø	
	1-529-155-11	SPEAKER (4.2X2.7CM) (KD-32NS100/32NX100)	
	8-598-535-11	FRONT END BTF-EF411 (KD-32NS100)	
	8-598-562-00	MODULE, INTERFACE DQS-CE102F (KD-32NS100)	
	1-823-154-11	CABLE	

ACCESSORIES AND PACKAGING MATERIALS

	1-790-082-11	CABLE, RF	
*	4-209-168-01	BAG, PROTECTION (KD-32DX100)	
*	4-206-145-01	BAG, PROTECTION (KD-32NS100/32NX100)	
*	4-205-227-02	CUSHION UPPER (KD-32DX100)	
*	4-206-143-01	CUSHION UPPER (KD-32NS100/32NX100)	
*	4-205-226-02	CUSHION LOWER (KD-32DX100)	
*	4-206-144-01	CUSHION LOWER (KD-32NS100/32NX100)	
*	4-205-228-02	INDIVIDUAL CARTON (KD-32DX100)	
*	4-206-142-01	INDIVIDUAL CARTON (KD-32NS100/32NX100)	
	4-206-496-61	INSTRUCTION MANUAL (KD-32DX100) (ENGLISH)	
	4-206-399-11	INSTRUCTION MANUAL (KD-32NS100) (GERMAN/ENGLISH)	
	4-206-381-61	INSTRUCTION MANUAL (KD-32NX100) (ENGLISH)	
*	A-1674-196-A	MODEM ASSY (KD-32NS100)	

REMOTE COMMANDER

	1-476-697-11	COMMANDER, STANDARD (RM-933) (KD-32DX100)	
	1-476-808-11	COMMANDER, STANDARD (RM-935) (KD-32NS100/32NX100)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.

The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

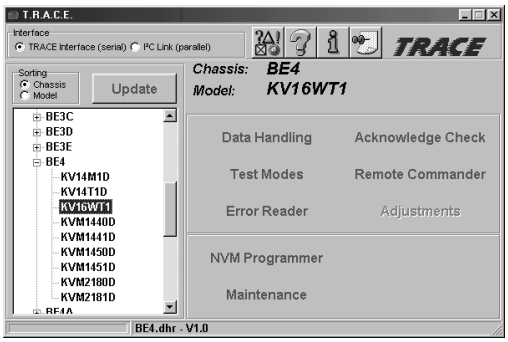
The TRACE software that is supplied with the interface allows you to:

- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.



Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.

Partnumbers:

TRACE Starter Kit (TRACE interface + software):	9-948-320-70
TRACE Software (for users of the I²C Link interface):	9-948-340-80
TRACE IR Add-on (IR interface + Remote Commander software):	9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

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